



Alkco's 6" Behavioral Health Specialty Downlight provides a solution for behavioral health applications, where fixtures must be designed to be ligature resistant and withstand frequent abuse.

Standard luminaire: Complete luminaire = Frame + Engine + Trim + Accessories (optional)

Buy American Act of 1933 (BAA) Compliant luminaire*:** Complete luminaire = Frame-BAC + Engine-BAC + Trim-BAC

* BAA compliance requires that BAC option be selected for each of frame, engine, and trim. Frame and engine will be ordered/shipped together; trim will be ordered/shipped separately. Accessories (optional) are not currently BAA-compliant.

Project: _____

Location: _____

Cat.No: _____

Type: _____

Line ID: _____ Qty: _____

Notes: _____

Order Logic: Static White

Frame

Example: ASDFRBAC

Family	Size	Shape	Voltage / Options
ASDF	6	R	
ASDF Specialty downlight frame	6 6"	R Round	EM6¹ Emergency, 6W LC² Chicago Plenum BAC³ Meets the requisites of the Buy American Act of 1933 (BAA)

Engine

Example: ASDE615927NZ103

Family	Size	Lumens	CRI/CCT	Beam	Dimming	Options	Voltage	Options
ASDE	6							
ASDE Specialty downlight engine	6 6"	10 1000lm 15 1500lm 20 2000lm 25 2500lm 30 3000lm 35 3500lm 40 4000lm 50 5000lm 60 6000lm	927 90CRI 2700K 930 90CRI 3000K 935 90CRI 3500K 940 90CRI 4000K	N Narrow M Medium W Wide	Z10⁴ 0-10V 1% (up to 6000lm) L01 Lutron PEQ0 EcoSystem 0.1% (up to 2000lm) L1 Lutron LDE1 EcoSystem (up to 4000lm) RA⁵ Integral Interact Pro RF sensor (enables wireless connected lighting) D DALI 0.1% (up to 6000lm) SOL EldoLED Solo 0-10V 0.1% (up to 6000lm) DMX Digital Multiplexing with RDM 0.1% (up to 6000lm)	--- None D20 Dim to Off LIN Linear --- None LIN Linear SQR Square	U 120/277V 3 347V U 120/277V U 120/277V U 120/277V	BAC³ Meets the requisites of the Buy American Act of 1933 (BAA)

Trim

Example: ASDT6VTC125CLWH

Family	Size	Aperture	Style	Bottom Lens	Beam	Finish	Flange	Options
ASDT	6	R						
ASDT Specialty downlight trim	6 6"	R Round	VT Vandal Trim	CP125	Blank Round	CL Specular clear CC Comfort clear CD Comfort clear diffuse WH Matte White	WH Matte White P Polished WH Matte White	IEM6 Trim mounted EM test switch BAC³ Meets the requisites of the Buy American Act of 1933 (BAA) IP65 Factory installed gasket to meet IP65 rating

Accessories (Not currently BAA-compliant) learn more on page 3

SBA	Interact Ready System Bridge Accessory (refer to Philips System Bridge Accessory spec sheet for options and details)
T347-75VA	347:120V step-down transformer for non-IC (N) frame only (see page 2 for details)

Footnotes

- Emergency (EM6) frame is compatible with reflector mounted test switch when trim is ordered with IEM6 option code (not compatible with 347V or Power over Ethernet configurations). For remote mount switch, order standard trim and CAEM6TSCP mounting plate accessory.
- Chicago Plenum frame is available for Buy American Compliant (BAC).
- Failure to properly select the "BAC" suffix could result in you receiving product that is not BAA compliant product with no recourse for an RMA or refund. This BAC designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requisites imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies.
- Dim-to-warm (D2W) available only with Z10 dimming. Narrow (N) and medium (M) beams only.
- Linear driver profile (see page 8).

ASD6 Behavioral Health Downlight

Order logic: Tunable White

Frame

Example: ASDFRBAC

Family	Size	Shape	Voltage / Options
ASDF	6	R	
ASDF Specialty downlight frame	6 6"	R Round	EM6 ¹ Emergency, 6W
			LC ² Chicago Plenum
			BAC ³ Meets the requisites of the Buy American Act of 1933 (BAA)

Engine

Example: ASDE1596TNDU

Family		Lumens		CRI/CCT		Beam		Dimming		Options		Voltage		Options		
<div>ASDE</div>																
ASDE	Specialty downlight engine	10	1000lm	96T	90 CRI Tunable White, up to 3000lm	N	Narrow	Z10 ⁴	0–10V 1% (up to 2500lm)	—	None	U	120/277V	BAC ³	Meets the requisites of the Buy American Act of 1933 (BAA)	
		15	1500lm						347				347V			
		20	2000lm	9D2W	90 CRI Dim to Warm up to 2000lm				LTW	Lutron Lutron T-series		U	120/277V			
		25	2500lm						RA ⁵	Integral Interact Pro RF sensor (enables wireless connected lighting)	LIN	Linear	U			120/277V
		30	3000lm													
		9BIO	90 CRI BioUp, up to 2500lm	D	DALI 0.1% (up to 3500lm)	—	None	U	120/277V							
				DMX	Digital Multiplexing with RDM 0.1% (up to 3500lm)	—	None	U	120/277V							

Trim

Example: ASDFRBAC

Family	Size	Aperture	Style	Bottom Lens	Beam	Finish	Flange	Options
ASDT	6	R			-			
ASDT Specialty downlight trim	6 6"	R Round	VT Vandal Trim	CP125	- Round	CL Specular clear	MW Matte White P Polished	IEM6 Trim mounted EM test switch
						CC Comfort clear		BAC ³ Meets the requisites of the Buy American Act of 1933 (BAA)
						CD Comfort clear diffuse		
						WH Matte White	WH Matte White	IP65 Factory installed gasket to meet IP65 rating

Accessories (Not currently BAA-compliant) learn more on page 3

SBA	Interact Ready System Bridge Accessory (refer to Philips System Bridge Accessory spec sheet for options and details)
T347-75VA	347:120V step-down transformer for non-IC (N) frame only (see page 2 for details)

Footnotes

- Emergency (EM6) frame is compatible with reflector mounted test switch when trim is ordered with IEM6 option code (not compatible with 347V or Power over Ethernet configurations). For remote mount switch, order standard trim and CAEM6TSCP mounting plate accessory.
- Chicago Plenum frame is available for Buy American Compliant (BAC).
- Failure to properly select the "BAC" suffix could result in you receiving product that is not BAA compliant product with no recourse for an RMA or refund. This BAC designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requisites imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies.
- Dim-to-warm (D2W) available only with Z10 dimming. Narrow (N) and medium (M) beams only.
- Linear driver profile (see page 8).



ASD6 Behavioral Health Downlight

Frame-in-kits

New Construction:

Galvanized stamped steel for dry or plaster ceilings. Preinstalled telescoping mounting bars from 13" to 24". For 4' distances, use 1/2" EMT, 1-1/2" x 1/2" U or C channel. Installation requires access to the top side of the luminaire – consult installation instructions for details.

Max ceiling thickness is 2.75" (70 mm)

Patented install Mounting frame:

- Pre-installed mounting bars for fast and tool-less installs into T-grid & hat channel ceilings.
- Close-cut aperture design eliminates possibility of gap between ceiling opening and reflector flange.
- Separate wiring compartment for wiring frame to building allows inspection prior to light engine install.
- Simple plug-and-play connection between frame and light engine from below ceiling.

Emergency

Bodine BSL6 6W battery pack with self-test/diagnostic functionality. Factory or field mounted to frame.

- For trim with integral emergency test switch, order trim with IEM6 option (ex: C6RDLCCIEM6).
- For remote ceiling mounted test switch, order standard trim (ex: C6RDLCC). Optional accessory ceiling mounting plate available (CAEM6TSCP) for remote mounted test switch.

Dimming

All configurations are FCC Class A unless otherwise specified.

- Advance 0-10V 1% (Z10), logarithmic curve is standard. Specify D2O for factory-set dim-to-off function, consult factory for linear dimming curve.
- EldoLED SOLODrive (SOL) 0-10v 0.1%
- Lutron LDE1 (L01) EcoSystem 1%
- DALI (D) – DT6 DALI 0.1%
- DMX (DMX) – Digital Multiplexing with RDM 0.1%

Dimming Options

The following are factory-set options for the SOL, D, and DMX driver options (ex. DMXLIN):

- SOL/D/DMX: Logarithmic (-) standard
- RA/SOL/D/DMX: Linear (LIN)
- SOL/DMX: Square (SQR)
- Dim to Warm (D2W): option changes CCT from 3000-1800K gradually as it dims. Use with Z10 dimming only. Fixture-to-fixture consistency of ≤3SDCM at 2700K & 3000K, and ≤5SDCM at 1800K.

Optical systems

Comfort throughout the space:

True 50° physical cutoff and 45° reflected cutoff.

Quality of light:

2 SDCM ensures color consistency from fixture to fixture and over the luminaire's long lifetime.

MesoOptics PET optical diffusion film:

Provides a smooth beam shape and mitigates color over angle with optimized luminaire efficiency.

* Quality of light section would be different for the tunable white option

Light Engine

Quick connect power pack allow for easy installation and replacement from below ceiling with no need for additional wiring. This allows for:

- Frame and ceiling installation to be performed while still finalizing details such as lumen packages, CCT and control type.
- Easy replacement of electronics at end of life with minimal wasted material and labor required.
- Ease and upgradability of technology.
- 347V light engines are Z10 dimming only and include dedicated 347V driver. For 347V non-Z10 dimming, order T347-75VA field-installed step-down transformer accessory.

Options and Accessories

SBA: Interact Ready System Bridge Accessory.

Requires IRT9015 IR remote and Interact Pro App for commissioning.

T347-75VA: Field installable 347:120V 75VA step-down transformer, attaches to knock out on frame junction box, for use with non-IC (N) or remodel (R) frames.

Labels and Listings

Wet Location, IP65, IK10, OMH, RoHS

Warranty



5 year limited warranty

Visit [Signify.com/warranties](https://www.signify.com/warranties) for more information on Signify's standard 5-year limited warranty on complete luminaire systems.

ASD6 Behavioral Health Downlight



AccuRender Technology (CRI 90+)

The right light brings colors to life. Our new AccuRender technology helps ensure colors are rendered more accurately and consistently, while doing so as efficiently as CRI 80 products.



Standard CRI 80
Good color rendering and high efficacy



Standard CRI 90
Better color rendering and low efficacy



AccuRender
Best color rendering, color preference and high efficacy

Enjoy design flexibility

Full range of products and options:

- Multiple color temperatures (CCTs) and lumen packages offered

Promote savings

High efficacy, with no penalty:

- Energy efficacy compares well to conventional 80 CRI
- Up to 25% more energy savings vs competitor 90 CRI¹

Show your true colors

High color rendering:

- True to life colors that help energize your environment and render better flesh tones critical for healthcare hospitality and retail applications.
- R_a up to 94 CRI • R_f up to 92 TM-30
- R_g up to 67 CRI • $R_{g,h1}$ up to 91 TM-30
- G_a up to 99 CRI • R_g up to 100 TM-30
- C_g up to 94 CRI • $R_{cs,h1}$ up to -5% TM-30

Achieve color balance

Best in class color consistency:

- Promote aesthetic harmony in your space with ≤ 2 SDCM

Photometric – Downlights with CRI of 90+ & R9 of 50+

Lumen Package	Beam	Flux (lm)	Efficacy (lm/W)	Beam Angle	CBCP	CRI	R9	Photometry Report	IES TM-30-18			UGR
									R_f	R_g	$R_{cs,h1}$	
1000 lm	Narrow (N)	831	97	35	2108	90+	50+	Calc	92	100	-5%	0
	Medium (M)	849	97	55	994	90+	50+	Calc	92	100	-5%	0
	Wide (W)	791	91	75	538	90+	50+	Calc	92	100	-5%	0
1500 lm	Narrow (N)	1278	100	35	3245	90+	50+	Calc	92	100	-5%	0
	Medium (M)	1285	98	55	1504	90+	50+	Calc	92	100	-5%	0
	Wide (W)	1193	92	75	811	90+	50+	Calc	92	100	-5%	0
2000 lm	Narrow (N)	1743	100	35	4423	90+	50+	Calc	92	100	-5%	0
	Medium (M)	1739	97	55	2034	90+	50+	Calc	92	100	-5%	0
	Wide (W)	1611	90	75	1095	90+	50+	Calc	92	100	-5%	0
2500 lm	Narrow (N)	2109	97	35	5352	90+	50+	Calc	92	100	-5%	2
	Medium (M)	2136	100	55	2481	90+	50+	STMR - 4850	92	100	-5%	1
	Wide (W)	1997	94	75	1357	90+	50+	Calc	92	100	-5%	1
3000 lm	Narrow (N)	2459	97	35	6240	90+	50+	Calc	92	100	-5%	3
	Medium (M)	2563	97	55	2997	90+	50+	Calc	92	100	-5%	3
	Wide (W)	2381	90	75	1618	90+	50+	Calc	92	100	-5%	3
3500 lm	Narrow (N)	2800	98	35	7104	90+	50+	Calc	92	100	-5%	3
	Medium (M)	2868	97	55	3354	90+	50+	Calc	92	100	-5%	3
	Wide (W)	2642	90	75	1796	90+	50+	Calc	92	100	-5%	3
4000 lm	Narrow (N)	3566	103	35	8627	90+	50+	Calc	92	100	-5%	4
	Medium (M)	3524	97	55	4032	90+	50+	Calc	92	100	-5%	4
	Wide (W)	3312	92	75	3790	90+	50+	Calc	92	100	-5%	4
5000 lm	Narrow (N)	4310	98	35	10359	90+	50+	Calc	92	100	-5%	5
	Medium (M)	4457	100	55	4457	90+	50+	Calc	92	100	-5%	5
	Wide (W)	4190	94	75	4190	90+	50+	Calc	92	100	-5%	5
6000 lm	Narrow (N)	4644	87	35	4644	90+	50+	Calc	92	100	-5%	5
	Medium (M)	5116	94	55	5116	90+	50+	Calc	92	100	-5%	5
	Wide (W)	4728	87	75	4728	90+	50+	Calc	92	100	-5%	5

ASD6 Behavioral Health Downlight

The three tiers of Interact			
	Standalone	Gateway	Gateway + IoT
Dimming, grouping, and zoning	✓	✓	✓
Bluetooth and ZigBee enabled	✓	✓	✓
Motion sensing and daylight harvesting	✓	✓	✓
Integration with 0-10V and phase dimming fixtures	✓	✓	✓
Code compliance	✓	✓	✓
Granular dimming and dwell time	✓	✓	✓
New Correlated color temperature (CCT) tuning by switch	✓	✓	✓
New Support for sensor-based Tunable White luminaires	✓	✓	✓
Energy reporting and monitoring		✓	✓
Scheduling		✓	✓
Demand response		✓	✓
BMS integration (BACnet)			✓
Floor plan visualization			✓
IoT sensors for wellness			✓
IoT Apps for productivity			✓

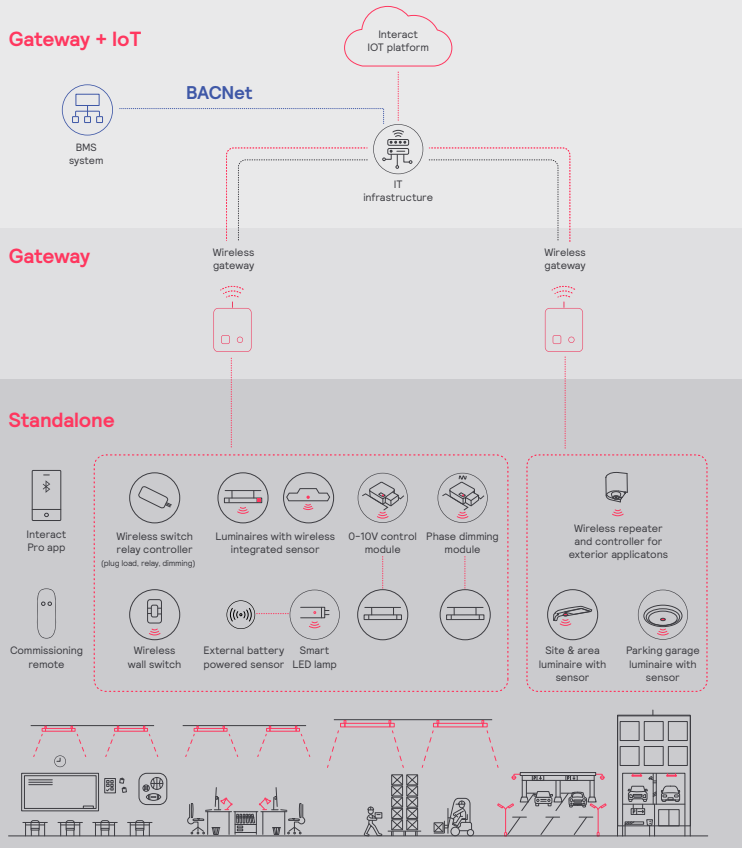
Currently supported maximum system size

To be able to design the lighting system correctly for the customer, it is important to know the prime characteristics of the system, its possibilities and limitations.

System level	
Total number of gateways	Unlimited
Total number of devices	200 per network
• luminaires with integrated sensors	150
• smart TLEDs	150
Total number of ZGP devices (sensors and switches)	50
• sensors	30
• switches	50
• zones and groups	64
Group level	
Recommended number of lights	40 (recommended 25)
Number of ZGP devices	5
Number of scenes	16

Interact system architecture for office, education, healthcare, retail, industrial and parking applications

Gateway + IoT



ASD6 Behavioral Health Downlight

Wireless controls options

Interact

- SWZCS is a connected sensor with integral occupancy and daylight sensing and supports wireless mesh connectivity.
- The sensor works in the standalone mode (similar to SpaceWise) when configured without a gateway or in a cloud connected mode if a compatible gateway is used.
- Interact includes an App, a portal and a broad portfolio of wireless luminaires, lamps and retrofit kits all working on the same system.
- Startup is implemented via Interact Pro App (Android or iPhone) & Bluetooth connectivity. The App provides flexibility to choose between a gateway or non gateway mode for setup.
- Setup with the gateway requires wired internet access to the gateway. It is possible to add a gateway at a later point.
- Prepare project configuration steps remotely and use IRT9015 remote on-site to identify and group devices together.

Compatible with:

- SWS200 & UID8465 wireless scene switch
- Battery powered IP42 presence sensor OCC sensor IA CM WH 10/1
- Battery powered IP42 presence & daylight sensor OCC-DL sensor IA CM IP42 WH
- LCN3110: battery powered IP65 presence sensor, OCC sensor IA CM IP65W
- LCN3120: battery powered IP65 presence & daylight sensor, OCC-DL sensor IA CM IP65 WH
- For more information on Interact visit:
interact-lighting.com/interactproscalablesystem

Radio only sensor (RA or RADIO)

- Integral RA or RADIO only sensor simply enables wireless mesh connectivity to the luminaire without any occupancy or daylight sensing.
- Ideal for applications where sensing functionality is managed by other Interact devices and the luminaire only needs to have wireless connectivity.
- Interact includes an App, a portal and a broad portfolio of wireless luminaires, lamps and retrofit kits all working on the same system.
- Startup is implemented via Interact Pro App (Android or iPhone) & Bluetooth connectivity. The App provides flexibility to choose between a gateway or non-gateway mode for setup.
- Setup with the gateway requires wired internet access to the gateway. It is possible to add a gateway at a later point.
- Prepare project configuration steps remotely, identify and group devices together onsite.
- Compatible with SWS200 and UID8465 wireless scene switch, wireless Occ sensor (OCC SENSOR IA CM IP42 WH 10/1) and wireless Day/Occ sensor (OCC MULTI SENSOR IA CM WH 10/1).
- For more information on Interact visit:
interact-lighting.com/interactproscalablesystem

Sensor bundle (IAOSB or SB)

- A wireless IoT connected lighting solution for large enterprises that span across multiple floors, buildings and require multiple gateways.
- View all your projects under one dashboard and easily compare insights from multiple projects in one view.
- Compatible with SWS200 wireless scene switch, wireless Occ sensor (OCC SENSOR IA CM IP42 WH 10/1) and wireless Day/Occ sensor (OCC MULTI SENSOR IA CM WH 10/1) and wireless Occupancy or Daylight & Occupancy sensors available. • Use Interact software and insights to increase building efficiency, achieve building wide integration and optimize space through occupancy analytics.
- IAOSB or SB option in addition to occupancy and daylight sensing supports advanced IoT capabilities, such as people estimation analysis, desk level temperature & humidity sensing, noise classification, and BLE beacon.
- Requires compatible Gateway and internet connectivity for commissioning.
- For more information, visit:
interact-lighting.com/interactproscalablesystem

Emergency Options (ER100)

- **Power Sensing** (factory default) – Recommended UL924 option requires unswitched power sense line, absence of voltage on the normal circuit triggers luminaire to 100% output.
- **Power Interruption Detection** (field option) – Detects AC power interruption >30ms triggers 90 minute emergency mode with luminaire at 100% output.

Interact supported sensor option codes across Genlyte product lines

	Evokit	Day-Brite	Ledalite	Lightolier
ZigBee + Bluetooth + Sensing	SWZCS	SWZCS	CS	SBA accessory (external)
ZigBee + Bluetooth	RADIO	RADIO	RA	RA
ZigBee + Bluetooth + Sensing + Environmental data	IAOSB	IAOSB	SB	SB
ZigBee + Highbay + Sensing	-	SWZCSH	-	-

ASD6 Behavioral Health Downlight

Finishes



Specular clear (CL): Most specular and most efficient finish, delivers maximum photometric performance but can produce a mirror image effect of the interior space.



Comfort clear (CC): Semi-specular finish that softens the light at the source of the reflector and creates a subtle, even luminance from the reflector cone.



Comfort clear diffuse (CD): Slightly diffuse clear finish, that eliminates iridescence and reduces the mirror image effect inherent with specular finishes.



Matte White (WH): Brightest illuminated aperture and provides the smoothest transition to most ceilings when off (matte white finish is only available with a matte white flange).

Flanges



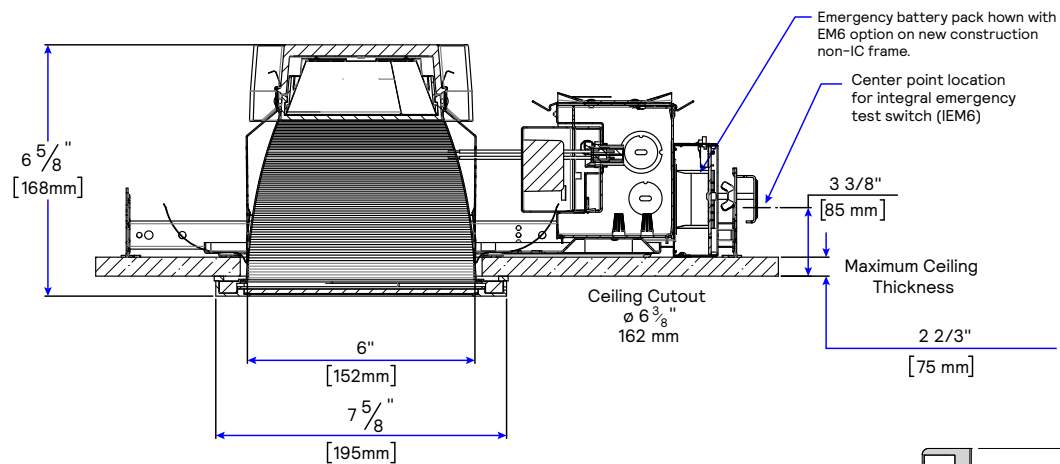
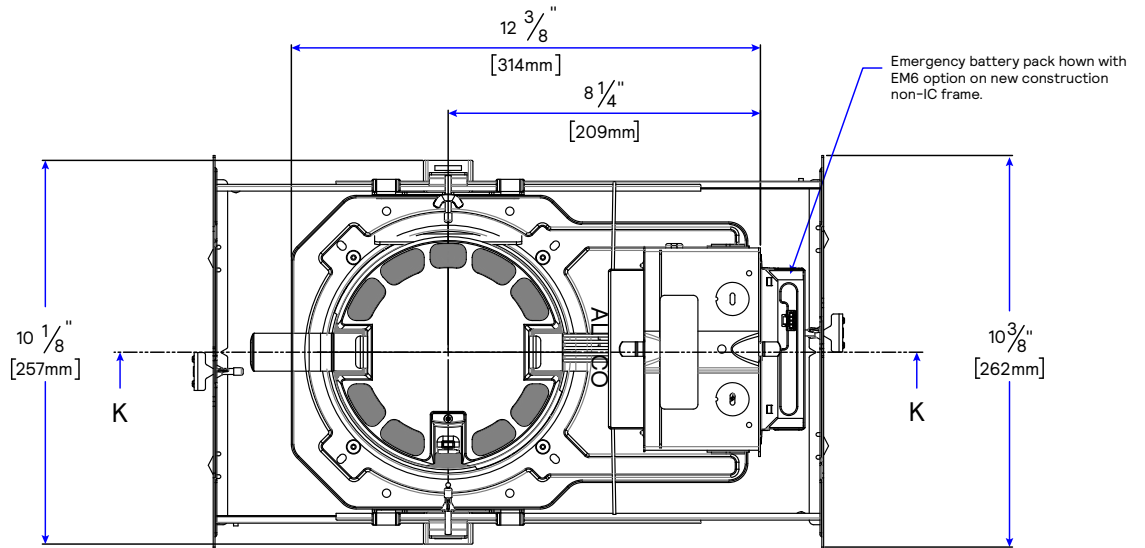
Matte White (WH): Brightest illuminated aperture and provides the smoothest transition to most ceilings when off (matte white finish is only available with a matte white flange).



Polished (P): Produces a continuous look throughout the reflector.

ASD6 Behavioral Health Downlight

New Construction (N)



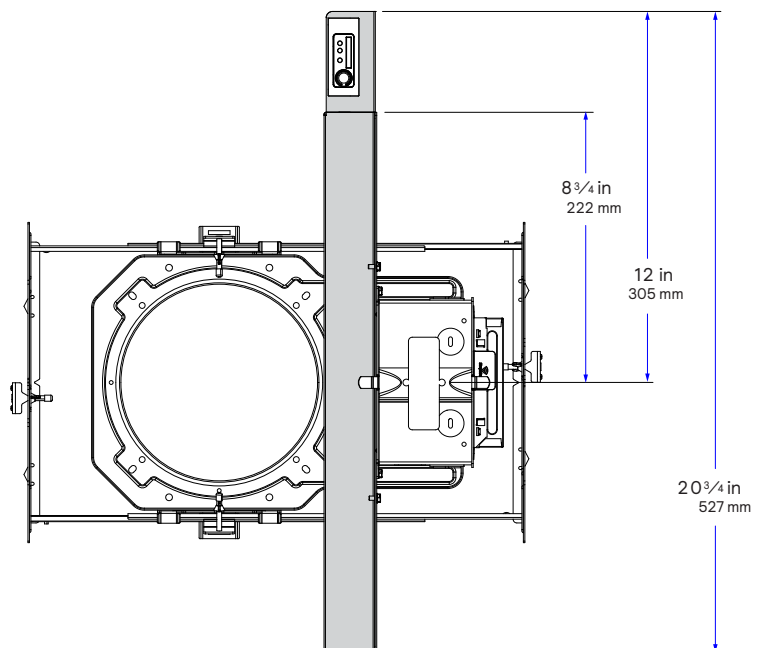
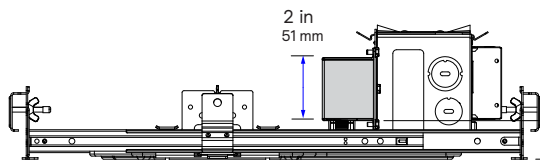
Linear driver (RA)

Surface/Pendant Remote Driver

(driver assembly recessed into ceiling) for all configurations.

Requires 19" plenum space.

Sensor shown for RA light engine only.



ASD6 Behavioral Health Downlight

Static White: Electrical – Narrow

Frame-in Kit	Input Volts	Input Freq.	Input Current	LED Drive Current	Input Power	LED Power	THD Factor	Power Factor
							@ Max Load	
ASDE6_10_NZ10U/3	120V	50/60Hz	0.084A	0.22A	10.1W	8.2W	<10%	>0.9
	277V	50/60Hz	0.037A	0.22A	10.3W	8.2W	<20%	>0.9
	347V	50/60Hz	0.034A	0.22A	11.7W	8.2W	<30%	>0.9
ASDE6_15_NZ10U/3	120V	50/60Hz	0.123A	0.33A	14.7W	12.3W	<10%	>0.9
	277V	50/60Hz	0.054A	0.33A	14.8W	12.3W	<10%	>0.9
	347V	50/60Hz	0.049A	0.33A	16.9W	12.3W	<25%	>0.9
ASDE6_20_NZ10U/3	120V	50/60Hz	0.166A	0.45A	19.9W	16.8W	<10%	>0.9
	277V	50/60Hz	0.072A	0.45A	20.0W	16.8W	<10%	>0.9
	347V	50/60Hz	0.064A	0.45A	22.1W	16.8W	<20%	>0.9
ASDE6_25_NZ10U/3	120V	50/60Hz	0.201A	0.55A	24.1W	20.5W	<10%	>0.9
	277V	50/60Hz	0.088A	0.55A	24.3W	20.5W	<10%	>0.9
	347V	50/60Hz	0.074A	0.55A	25.6W	20.5W	<20%	>0.9
ASDE6_30_NZ10U/3	120V	50/60Hz	0.238A	0.65A	28.5W	24.2W	<10%	>0.9
	277V	50/60Hz	0.102A	0.65A	28.4W	24.2W	<10%	>0.9
	347V	50/60Hz	0.086A	0.65A	29.9W	24.2W	<15%	>0.9
ASDE6_35_NZ10U/3	120V	50/60Hz	0.271A	0.75A	32.5W	28.0W	<10%	>0.9
	277V	50/60Hz	0.117A	0.75A	32.5W	28.0W	<10%	>0.9
	347V	50/60Hz	0.096A	0.75A	33.3W	28.0W	<15%	>0.9
ASDE6_40_NZ10U/3	120V	50/60Hz	0.333A	0.92A	39.9W	34.3W	<10%	>0.9
	277V	50/60Hz	0.144A	0.92A	39.9W	34.3W	<10%	>0.9
	347V	50/60Hz	0.115A	0.92A	39.9W	34.3W	<10%	>0.9
ASDE6_50_NZ10U/3	120V	50/60Hz	0.405A	1.12A	48.6W	41.8W	<10%	>0.9
	277V	50/60Hz	0.174A	1.12A	48.3W	41.8W	<10%	>0.9
	347V	50/60Hz	0.142A	1.12A	49.1W	41.8W	<10%	>0.9
ASDE6_60_NZ10U/3	120V	50/60Hz	0.488A	1.35A	58.6W	50.4W	<10%	>0.9
	277V	50/60Hz	0.208A	1.35A	57.5W	50.4W	<10%	>0.9
	347V	50/60Hz	0.169A	1.35A	58.6W	50.4W	<10%	>0.9

Static White: Electrical – Medium & Wide

Frame-in Kit	Input Volts	Input Freq.	Input Current	LED Drive Current	Input Power	LED Power	THD Factor	Power Factor
							@ Max Load	
ASDE6_10_[MIW]Z10U/3	120V	50/60Hz	0.075A	0.22A	9.0W	7.3W	<10%	>0.9
	277V	50/60Hz	0.033A	0.22A	9.2W	7.3W	<20%	>0.9
	347V	50/60Hz	0.030A	0.22A	10.4W	7.3W	<30%	>0.9
ASDE6_15_[MIW]Z10U/3	120V	50/60Hz	0.109A	0.33A	13.1W	11.0W	<10%	>0.9
	277V	50/60Hz	0.048A	0.33A	13.2W	11.0W	<10%	>0.9
	347V	50/60Hz	0.043A	0.33A	15.0W	11.0W	<25%	>0.9
ASDE6_20_[MIW]Z10U/3	120V	50/60Hz	0.147A	0.45A	17.7W	14.9W	<10%	>0.9
	277V	50/60Hz	0.064A	0.45A	17.8W	14.9W	<10%	>0.9
	347V	50/60Hz	0.057A	0.45A	19.7W	14.9W	<20%	>0.9
ASDE6_25_[MIW]Z10U/3	120V	50/60Hz	0.180A	0.55A	21.6W	18.4W	<10%	>0.9
	277V	50/60Hz	0.078A	0.55A	21.7W	18.4W	<10%	>0.9
	347V	50/60Hz	0.066A	0.55A	23.0W	18.4W	<20%	>0.9
ASDE6_30_[MIW]Z10U/3	120V	50/60Hz	0.219A	0.67A	26.3W	22.4W	<10%	>0.9
	277V	50/60Hz	0.094A	0.67A	26.2W	22.4W	<10%	>0.9
	347V	50/60Hz	0.079A	0.67A	27.5W	22.4W	<15%	>0.9
ASDE6_35_[MIW]Z10U/3	120V	50/60Hz	0.243A	0.75A	29.1W	25.1W	<10%	>0.9
	277V	50/60Hz	0.105A	0.75A	29.1W	25.1W	<10%	>0.9
	347V	50/60Hz	0.086A	0.75A	29.8W	25.1W	<15%	>0.9
ASDE6_40_[MIW]Z10U/3	120V	50/60Hz	0.298A	0.92A	35.7W	30.7W	<10%	>0.9
	277V	50/60Hz	0.129A	0.92A	35.7W	30.7W	<10%	>0.9
	347V	50/60Hz	0.105A	0.92A	36.6W	30.7W	<10%	>0.9
ASDE6_50_[MIW]Z10U/3	120V	50/60Hz	0.376A	1.15A	45.1W	38.8W	<10%	>0.9
	277V	50/60Hz	0.161A	1.15A	44.5W	38.8W	<10%	>0.9
	347V	50/60Hz	0.131A	1.15A	45.6W	38.8W	<10%	>0.9
ASDE6_60_[MIW]Z10U/3	120V	50/60Hz	0.451A	1.38A	54.1W	46.5W	<10%	>0.9
	277V	50/60Hz	0.192A	1.38A	53.1W	46.5W	<10%	>0.9
	347V	50/60Hz	0.156A	1.38A	54.1W	46.5W	<10%	>0.9

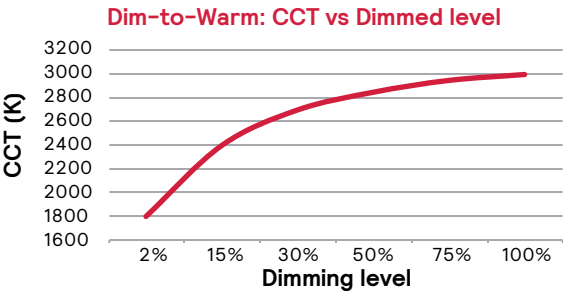
ASD6 Behavioral Health Downlight

Static White

Lifetime (TM-21) data

Lumens	Narrow beam	Medium/Wide beam
1000lm	L90 @ 60,000hrs.	L90 @ 60,000hrs.
1500lm		
2000lm		
2500lm		
3500lm*		

* Lutron 3500lm with Medium/Wide beam is L85 @ 60,000hrs.

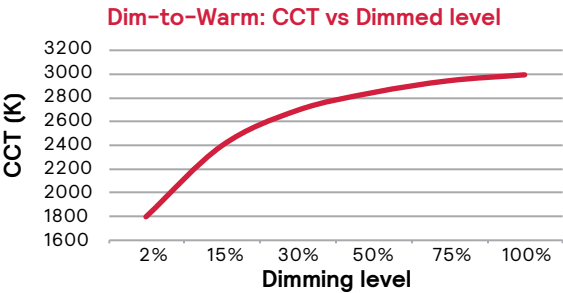


Tunable White

Lifetime (TM-21) data

Lumens	Narrow beam	Medium/Wide beam
1000lm	L90 @ 60,000hrs.	L90 @ 60,000hrs.
1500lm		
2000lm		
2500lm		
3500lm*		

* Lutron 3500lm with Medium/Wide beam is L85 @ 60,000hrs.



ASD6 Behavioral Health Downlight

Tunable White: Electrical - Narrow

Frame-in Kit	Input Volts	Input Freq.	Input Current	LED Drive Current	Input Power	LED Power	THD Factor	Power Factor
							@ Max Load	
ASDE6_10D2WNZ10U/3	120V	50/60Hz	0.087A	0.22A	10.4W	8.2W	<15%	>0.9
	277V	50/60Hz	0.041A	0.22A	11.2W	8.2W	<25%	>0.8
ASDE6_15D2WNZ10U/3	120V	50/60Hz	0.124A	0.33A	14.8W	12.3W	<10%	>0.9
	277V	50/60Hz	0.057A	0.33A	15.8W	12.3W	<25%	>0.85
ASDE6_20D2WNZ10U/3	120V	50/60Hz	0.165A	0.45A	19.7W	16.8W	<10%	>0.9
	277V	50/60Hz	0.076A	0.45A	21.0W	16.8W	<20%	>0.9
ASDE6_25D2WNZ10U/3	120V	50/60Hz	0.201A	0.55A	24.1W	20.5W	<10%	>0.9
	277V	50/60Hz	0.089A	0.55A	24.7W	20.5W	<15%	>0.9
ASDE6_1096TeZ10U/3	120V	50/60Hz	0.111A	0.31A	13.4W	11.1W	<20%	>0.9
	277V	50/60Hz	0.050A	0.31A	13.9W	11.1W	<20%	>0.8
ASDE6_1596TeZ10U/3	120V	50/60Hz	0.165A	0.47A	19.8W	16.8W	<15%	>0.9
	277V	50/60Hz	0.075A	0.47A	20.8W	16.8W	<20%	>0.85
ASDE6_2096TeZ10U/3	120V	50/60Hz	0.222A	0.64A	26.6W	22.9W	<15%	>0.9
	277V	50/60Hz	0.101A	0.64A	27.9W	22.9W	<25%	>0.85
ASDE6_2596TeZ10U/3	120V	50/60Hz	0.285A	0.83A	34.2W	29.7W	<15%	>0.9
	277V	50/60Hz	0.126A	0.83A	35.0W	29.7W	<15%	>0.9
ASDE6_3096TeZ10U/3	120V	50/60Hz	0.379A	1.08A	45.5W	38.7W	<10%	>0.9
	277V	50/60Hz	0.163A	1.08A	45.2W	38.7W	<10%	>0.9
ASDE6_109BIONZ10U/3	120V	50/60Hz	0.099A	0.30A	11.9W	9.9W	<20%	>0.9
	277V	50/60Hz	0.045A	0.30A	12.4W	9.9W	<20%	>0.8
ASDE6_159BIONZ10U/3	120V	50/60Hz	0.141A	0.44A	16.9W	14.4W	<15%	>0.9
	277V	50/60Hz	0.064A	0.44A	17.7W	14.4W	<20%	>0.85
ASDE6_209BIONZ10U/3	120V	50/60Hz	0.214A	0.65A	25.7W	22.1W	<15%	>0.9
	277V	50/60Hz	0.097A	0.65A	27.0W	22.1W	<25%	>0.85
ASDE6_259BIONZ10U/3	120V	50/60Hz	0.268A	0.80A	32.2W	28.0W	<15%	>0.9
	277V	50/60Hz	0.119A	0.80A	32.9W	28.0W	<15%	>0.9

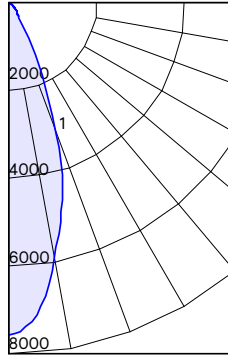
Tunable White: Electrical - Wide & Medium

Frame-in Kit	Input Volts	Input Freq.	Input Current	LED Drive Current	Input Power	LED Power	THD Factor	Power Factor
							@ Max Load	
ASDE6_10D2W[M]W]Z10U/3	120V	50/60Hz	0.077A	0.22A	9.2W	7.3W	<15%	>0.9
	277V	50/60Hz	0.036A	0.22A	10.0W	7.3W	<25%	>0.8
ASDE6_15D2W[M]W]Z10U/3	120V	50/60Hz	0.110A	0.33A	13.2W	11.0W	<10%	>0.9
	277V	50/60Hz	0.051A	0.33A	14.0W	11.0W	<25%	>0.85
ASDE6_20D2W[M]W]Z10U/3	120V	50/60Hz	0.146A	0.45A	17.6W	14.9W	<10%	>0.9
	277V	50/60Hz	0.067A	0.45A	18.7W	14.9W	<20%	>0.9
ASDE6_25D2W[M]W]Z10U/3	120V	50/60Hz	0.180A	0.55A	21.6W	18.4W	<10%	>0.9
	277V	50/60Hz	0.080A	0.55A	22.1W	18.4W	<15%	>0.9
ASDE6_1095TeZ10U/3	120V	50/60Hz	0.111A	0.31A	13.4W	11.1W	<20%	>0.9
	277V	50/60Hz	0.050A	0.31A	13.9W	11.1W	<20%	>0.8
ASDE6_1595TeZ10U/3	120V	50/60Hz	0.165A	0.47A	19.8W	16.8W	<15%	>0.9
	277V	50/60Hz	0.075A	0.47A	20.8W	16.8W	<20%	>0.85
ASDE6_2095TeZ10U/3	120V	50/60Hz	0.222A	0.64A	26.6W	22.9W	<15%	>0.9
	277V	50/60Hz	0.101A	0.64A	27.9W	22.9W	<25%	>0.85
ASDE6_2595TeZ10U/3	120V	50/60Hz	0.285A	0.83A	34.2W	29.7W	<15%	>0.9
	277V	50/60Hz	0.126A	0.83A	35.0W	29.7W	<15%	>0.9
ASDE6_3095TeZ10U/3	120V	50/60Hz	0.379A	1.08A	45.5W	38.7W	<10%	>0.9
	277V	50/60Hz	0.163A	1.08A	45.2W	38.7W	<10%	>0.9
ASDE6_109BIO[M]W]Z10U/3	120V	50/60Hz	0.099A	0.30A	11.9W	9.9W	<20%	>0.9
	277V	50/60Hz	0.045A	0.30A	12.4W	9.9W	<20%	>0.8
ASDE6_159BIO[M]W]Z10U/3	120V	50/60Hz	0.141A	0.44A	16.9W	14.4W	<15%	>0.9
	277V	50/60Hz	0.064A	0.44A	17.7W	14.4W	<20%	>0.85
ASDE6_209BIO[M]W]Z10U/3	120V	50/60Hz	0.214A	0.65A	25.7W	22.1W	<15%	>0.9
	277V	50/60Hz	0.097A	0.65A	27.0W	22.1W	<25%	>0.85
ASDE6_259BIO[M]W]Z10U/3	120V	50/60Hz	0.268A	0.80A	32.2W	28.0W	<15%	>0.9
	277V	50/60Hz	0.119A	0.80A	32.9W	28.0W	<15%	>0.9

ASD6 Behavioral Health Downlight

Narrow beam, 3500lm Engine, 105 lm/W at 29W

Candela curve



ASDE635935NZ10U + ASDT6RVBL125CPCL

Output lumens: 2985 lm
CCT: 3500K
Input watts: 28.5 W
Efficacy: 104.7 lm/W
CRI: 90 min
Spacing crit.: 0.6
Beam angle: 36°

Zonal summary

Zone	Lumens	%Luminaire
0-30	2650	88.8%
0-40	2878	96.4%
0-60	2981	99.9%
0-90	2985	100.0%

Angle	Mean CP	Lumens
0	7570	
5	7136	
10	5937	642
15	4652	
20	3140	1266
25	1586	
30	610	742
35	340	
40	264	228
45	127	
50	15	99
55	5	
60	3	4
65	2	
70	1	1
75	1	
80	0	0
85	0	
90	0	0

Single unit data

Height to lighted plane	Initial foot-candles	Beam diameter (ft)*
8'	118	4.8'
9'	93	5.4'
10'	76	6.0'
12'	53	6.6'
14'	39	8.4'

* Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

Spacing on center	Initial foot-candles	Watts per sq. ft.
5'	140.0	1.26
6'	92.0	0.83
7'	66.0	0.59
8'	55.0	0.49
9'	44.0	0.39

38' x 38' x 10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Efficacy: 104.7lm/W
Report#: STMR-1590.2

Adjustment factors

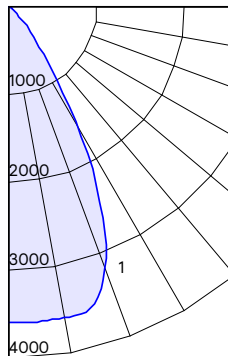
Reflector Finish	CCT	Lenses
CL = 100%	90CRI, 4000K = 102%	125CA = 96%
CC = 95%	90CRI, 3500K = 100%	125CP = 90%
CD = 87%	90CRI, 3000K = 96%	187CP = 92%
WH = 87%	90CRI, 2700K = 92%	250CP = 85%
BK = 57%		CP125 = 84%
AM = 97%		NA = 100%

Coefficients of utilization

Ceiling	80%				70%				50%				30%				0%
Wall	70	50	30	10	50	10	50	10	50	10	50	10	50	10	50	10	0
RCR	Zonal cavity method - Effective floor reflectance = 20%																
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100	100	106	106	100	95
1	114	112	110	108	110	106	106	103	103	102	100	95	95	101	96	98	94
2	110	106	102	100	104	99	101	96	98	94	89	87	87	91	86	90	85
3	106	100	96	93	99	92	96	91	94	89	87	87	87	88	82	87	81
4	102	95	91	87	94	87	92	86	90	85	83	83	83	88	82	87	81
5	98	91	86	83	90	82	88	82	87	83	77	75	75	85	78	83	77
6	94	87	82	78	86	78	85	78	83	77	72	72	72	81	74	80	74
7	91	83	78	75	82	75	81	74	80	74	72	72	72	78	71	77	71
8	87	80	75	71	79	71	78	71	77	71	69	69	69	76	68	74	68
9	84	76	72	68	76	68	75	68	74	68	67	67	67	73	66	72	65
10	81	74	69	66	73	66	72	65	72	65	64	64	64	70	63	69	64

Medium beam, 3500lm Engine, 104lm/W at 29W

Candela curve



ASDE635935MZ10U + ASDT6RVBL125CPCL

Output lumens: 3070 lm
CCT: 3500K
Input watts: 29.4 W
Efficacy: 104.4 lm/W
CRI: 90 min
Spacing crit.: 0.926
Beam angle: 56°

Zonal summary

Zone	Lumens	%Luminaire
0-30	2424	79.0%
0-40	2930	95.4%
0-60	3068	99.9%
0-90	3070	100.0%

Angle	Mean CP	Lumens
0	3590	
5	3606	
10	3603	344
15	3559	
20	3183	986
25	2457	
30	1507	1094
35	763	
40	391	506
45	166	
50	18	133
55	5	
60	3	5
65	2	
70	1	2
75	1	
80	0	0
85	0	
90	0	0

Single unit data

Height to lighted plane	Initial foot-candles	Beam diameter (ft)*
5'	144	4.8'
6'	100	5.8'
7'	73	6.7'
8'	56	7.7'
9'	44	8.6'

* Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

Spacing on center	Initial foot-candles	Watts per sq. ft.
5'	141.0	1.30
6'	92.0	0.86
7'	66.0	0.61
8'	55.0	0.51
9'	44.0	0.41

38' x 38' x 10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Efficacy: 104.4lm/W
Report#: STMR-2437

Adjustment factors

Reflector Finish	CCT	Lenses
CL = 100%	90CRI, 4000K = 102%	125CA = 96%
CC = 95%	90CRI, 3500K = 100%	125CP = 90%
CD = 87%	90CRI, 3000K = 96%	187CP = 92%
WH = 87%	90CRI, 2700K = 92%	250CP = 85%
BK = 57%		CP125 = 84%
AM = 97%		NA = 100%

Coefficients of utilization

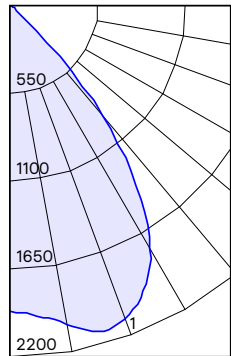
Ceiling	80%				70%				50%				30%				0%
Wall	70	50	30	10	50	10	50	10	50	10	50	10	50	10	50	10	0
RCR	Zonal cavity method - Effective floor reflectance = 20%																
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100	100	106	106	100	95
1	114	111	109	107	109	105	105	102	102	101	99	94	94	101	96	98	94
2	109	104	100	97	102	96	99	94	96	92	88	88	88	93	87	91	85
3	103	97	93	89	96	88	93	87	91	86	80	77	77	88	82	87	81
4	99	91	86	82	90	82	88	81	86	80	73	73	73	85	78	83	77
5	94	86	81	76	85	76	83	75	82	75	73	73	73	81	74	80	74
6	90	81	75	71	80	71	79	71	77	70	68	68	68	78	71	77	71
7	85	77	71	67	76	67	75	66	73	66	64	64	64	73	66	72	66
8	81	72	67	63	72	63	71	62	70	62	61	61	61	70	63	69	64
9	78	69	63	59	68	59	67	59	66	59	57	57	57	66	59	65	60
10	74	65	60	56	65	56	64	56	63	56	54	54	54	62	55	61	56

1. Correlated Color Temperature within specs as defined in ANSI_NEMA_ANSLG C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.
2. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.

ASD6 Behavioral Health Downlight

Wide beam, 3500lm Engine, 896lm/W at 29W

Candela curve



ASDE635935WZ10U +
ASDT6RVBL125CPCL

Output lumens: 2825 lm
CCT: 3500K
Input watts: 29.4 W
Efficacy: 96.1lm/W
CRI: 90 min
Spacing crit: 1.3
Beam angle: 76°

Zonal summary

Zone	Lumens	%Luminaire
0-30	1687	59.7%
0-40	2531	89.6%
0-60	2823	99.9%
0-90	2825	100.0%

Angle	Mean CP	Lumens
0	1920	
5	1951	
10	2025	189
15	2115	
20	2093	595
25	1978	
30	1755	903
35	1378	
40	900	844
45	329	
50	30	283
55	8	
60	4	9
65	2	
70	1	2
75	1	
80	0	1
85	0	
90	0	0

Single unit data

Height to lighted plane	Initial foot-candles	Beam diameter (ft)*
5'	77	6.5'
6'	53	7.8'
7'	39	9.1'
8'	30	10.4'
9'	24	11.7'

* Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

Spacing on center	Initial foot-candles	Watts per sq. ft.
5'	127.0	1.30
6'	84.0	0.86
7'	60.0	0.61
8'	50.0	0.51
9'	40.0	0.41

38' x 38' x 10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Efficacy: 96.1lm/W
Report#: STMR-2438

Adjustment factors

Reflector Finish	CCT	Lenses
CL = 100%	90CRI, 4000K = 102%	125CA = 96%
CC = 95%	90CRI, 3500K = 100%	125CP = 90%
CD = 87%	90CRI, 3000K = 96%	187CP = 92%
WH = 87%	90CRI, 2700K = 92%	250CP = 85%
BK = 57%		CP125 = 84%
AM = 97%		NA = 100%

Coefficients of utilization

Ceiling	80%				70%		50%		30%		0%
Wall	70	50	30	10	50	10	50	10	50	10	0
RCR	Zonal cavity method - Effective floor reflectance = 20%										
0	119	119	119	119	116	116	111	111	106	106	100
1	113	110	108	105	108	104	104	100	100	97	93
2	107	102	98	94	100	93	97	91	94	89	85
3	101	94	89	85	93	84	90	83	88	81	78
4	95	87	81	77	86	76	84	75	82	75	72
5	90	81	75	70	80	70	78	69	76	69	66
6	85	75	69	64	74	64	73	64	71	63	61
7	80	70	64	59	69	59	68	59	67	58	56
8	76	65	59	54	65	54	64	54	63	54	52
9	72	61	55	50	61	50	60	50	59	50	48
10	68	57	51	47	57	47	56	47	55	46	45

1. Correlated Color Temperature within specs as defined in ANSI_NEMA_ANSLG C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.
2. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.

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