



EasyLyte LED flex install downlights are designed to offer peak performance and aesthetic appeal while making job specification and installation simple for either retrofit or new construction applications. The unique trim retention springs adapt to varying ceiling thicknesses and types with simple adjustments while requiring no new frame at all. EasyLyte Flex is an ideal choice for open office, healthcare, design build, and other light commercial applications.

Project: _____
 Location: _____
 Cat.No: _____
 Type: _____
 Qty: _____
 Notes: _____

Standard luminaire = Engine/Trim + Accessories (optional).
 Accessory new construction frames available.

Frame

Standard example: ZF4RDL20935WOCZ10U

Series	Lumen	CRI / CCT	Beam	Style	Reflector	Flange	Dimming	Voltage
ZF4RDL EasyLyte LED flex install 4-inch Round downlight	05 500lm	927 90CRI / 2700K	W Wide	O Open	WH White BK Black CD Clear Diffuse (applied finish)	- White (matte)	Z10 0-10V 1%	U 120/277V
	10 1000lm	930 90CRI / 3000K						3 347V ² (Z10 only)
	15 1500lm	935 90CRI / 3500K					E ELV ¹	1 120V
	20 2000lm	940 90CRI / 4000K						
ZF6RDL EasyLyte LED flex install 6-inch Round downlight	05 500lm	927 90CRI / 2700K	W Wide	O Open	WH White BK Black CD Clear Diffuse (applied finish)	- White (matte)	Z10 0-10V 1%	U 120/277V
	10 1000lm	930 90CRI / 3000K						3 347V ² (Z10 only)
	15 1500lm	935 90CRI / 3500K					E ELV ¹	1 120V
	20 2000lm	940 90CRI / 4000K						
	25 2500lm							
	30 3000lm							
35 3500lm								

Accessories

- SBA** Interact Ready System Bridge Accessory with integral occupancy and daylight sensor (compatible with all 0-10V options, see SBA spec sheet)³
- 4RNSR** 4" round/square non-IC frame with Flex (F) light engine (provides mechanical support for rough-in construction only, no junction box)
- 6RNSR** 6" round/square non-IC frame with Flex (F) light engine (provides mechanical support for rough-in construction only, no junction box)

1. ELV (E) dimming is only compatible with 1000 lm (10), 1500 lm (15), 2000 lm (20) configurations. Not compatible with 347V.
 2. The 347V light engine voltage option is available only with Z10 dimming option.
 3. Requires IRT9015 IR remote & Interact Pro App for commissioning.

Finishes



White

Brightest aperture when illuminated and provides the smoothest transition to most ceilings when off (only available with a white flange).



Black

Specular finish that provides the lowest aperture brightness possible and reduces source identification in a ceiling significantly.



Clear diffuse

Slightly diffuse clear finish that softens the light and reduces the mirror image effect with traditional aluminum specular finishes (only available with a white flange).



ZF4RDL / ZF6RDL EasyLyte LED flex install

4" & 6" Round Downlights

Features

Optics

- Provides a 70° cutoff (physical and reflected)
- Wide beam distribution for general illumination
- Spun aluminum outer reflector with integral flange painted white
- Injection molded plastic trim inserts in splay and baffle options
- Reflectors available in painted clear diffuse, white, black and dark bronze

Quality of light

- Lumen Maintenance: L70 at 60,000 hours
- Color consistency: 2 SDCM
- 90 CRI minimum

	Ceiling Cutout	
	Min	Max
ZF4RDL	4.88"	5.50"
ZF6RDL	6.37"	7.00"

Max ceiling thickness is 1.5" (38 mm).

Dimming

- Advance 0-10V 1% dimming
- ELV/Triac dimming 120V
- Integral 347V drivers available for 0-10v (Z10) light engine configurations
- Rated life: 60,000 hrs at 70% lumen maintenance based on IES LM-80-08 and TM-21-11.

Accessories

4RN-NJB 4" round new construction non-IC frame-in kit with 24" telescoping bar hangers for suspended t-bar or hard ceilings. No junction box included, wire splicing is accommodated on the light engine.

6RN-NJB 6" round new construction non-IC frame-in kit with 24" telescoping bar hangers for suspended t-bar or hard ceilings. No junction box included, wire splicing is accommodated on the light engine.

Installations

- With frame (new construction)
- Without frame (retrofit & remodel)

Construction

- Spring steel trim retention springs allow for easy installation without need for a metal pan above the ceiling. Adapt easily for different ceiling thicknesses by adjusting spring depth.
- Easily accommodates retrofitting existing luminaires without need for accessories or adjustment. See chart below for accommodating aperture diameters.
- Floating junction box makes installation easier by avoiding interference above the ceiling. All wire splicing is accommodated on the light engine.

Labels and Listings

- cULus listed for wet location
- RoHS certified
- Consult factory for Buy America Compliance

Warranty



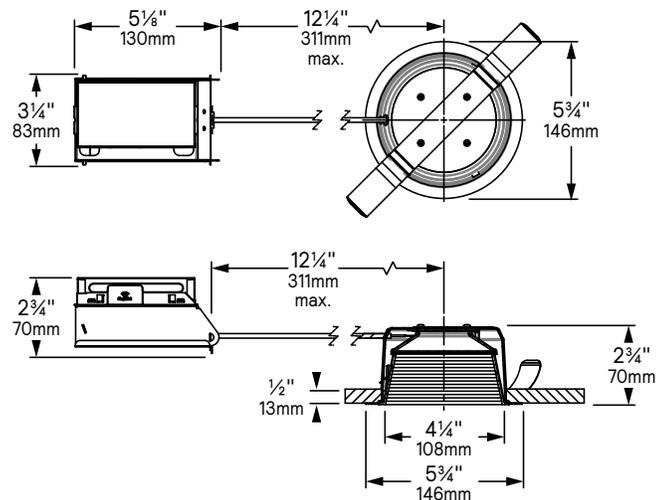
5 year limited warranty
Visit [Signify.com/warranties](https://www.signify.com/warranties) for more information on Signify's standard 5-year limited warranty on complete luminaire systems.

ZF4RDL / ZF6RDL EasyLyte LED flex install

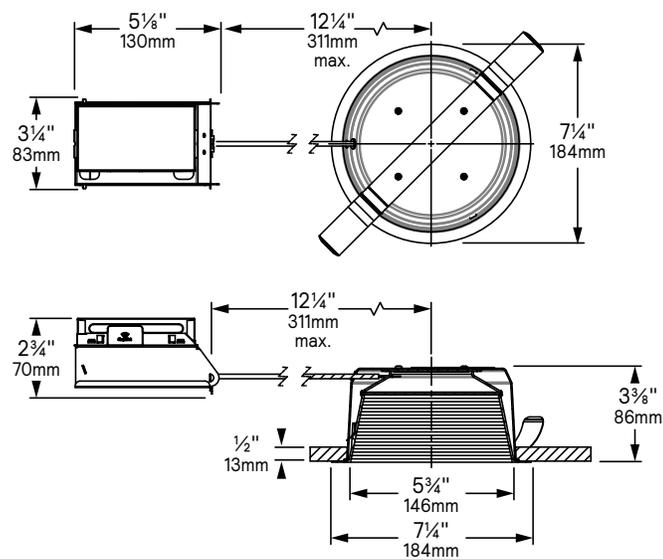
4" & 6" Round Downlights

Dimensions

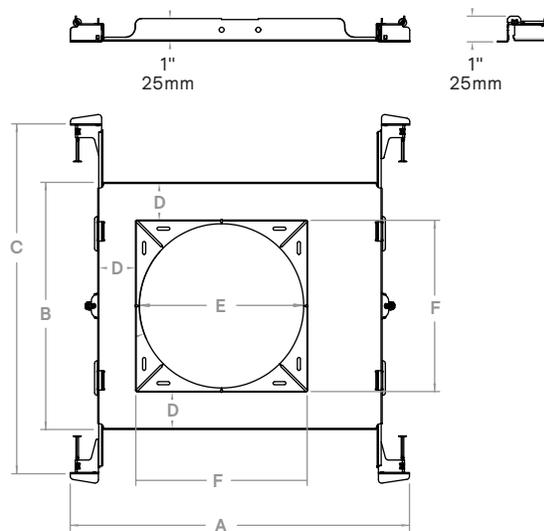
ZF4RDL



ZF6RDL



Flex install non-IC frame



	A	B	C	D	E	F
4RNSR	10 7/8" 276mm	7 1/4" 184mm	13 5/8" 345mm	1" 25mm	4 7/8" 124mm	5 1/4" 132mm
6RNSR	13 1/4" 334mm	9 5/8" 244mm	13 5/8" 345mm	1 1/2" 37mm	6 3/8" 162mm	5 5/8" 169mm

ZF4RDL / ZF6RDL EasyLyte LED flex install

4" & 6" Round Downlights

interact

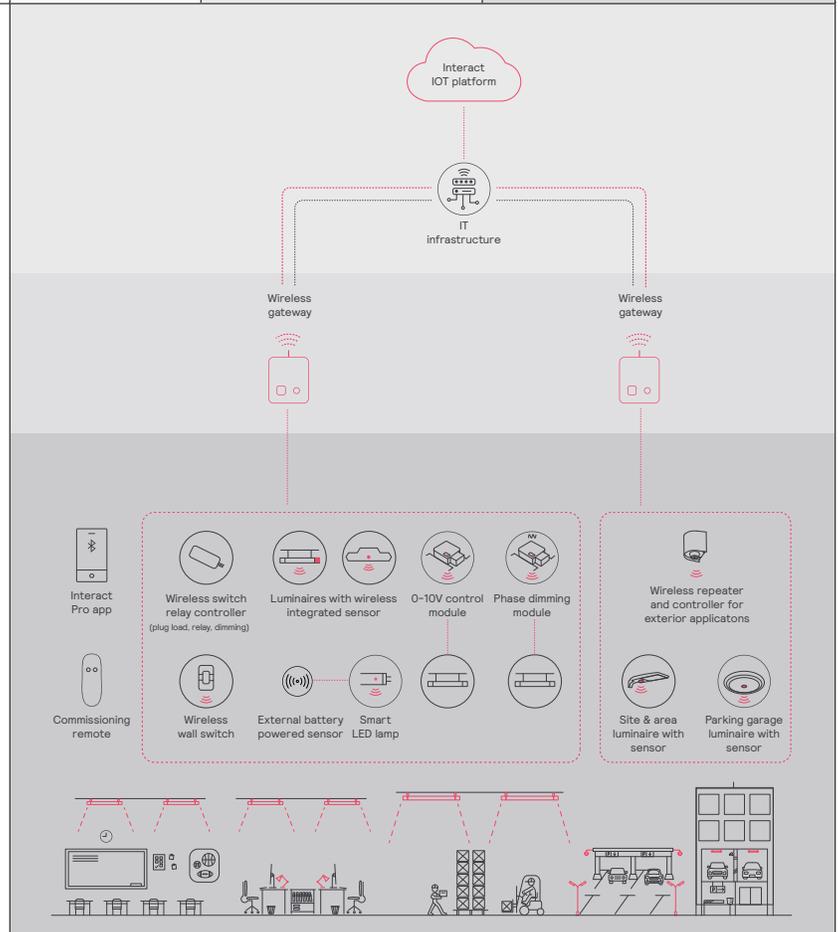
	Gateway Connected		
	Standalone	Option 1	Option 2
Dimming, grouping, and zoning	✓	✓	✓
Bluetooth and ZigBee enabled	✓	✓	✓
Motion sensing and daylight harvesting	✓	✓	✓
Integration with 0-10V and phase dimming fixtures	✓	✓	✓
Code compliance	✓	✓	✓
Granular dimming and dwell time	✓	✓	✓
Correlated color temperature (CCT) tuning by switch	New ✓	✓	✓
Support for sensor-based Tunable White luminaires	New ✓	✓	✓
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
• Zones + groups	64
Total number of ZGP devices (sensors and switches)	50
• Sensors	30
• Switches	50

Group level	
Recommended number of lights	40 (maximum 150)
Number of ZGP devices	5
Number of scenes	16



ZF4RDL / ZF6RDL EasyLyte LED flex install

4" & 6" Round Downlights

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 daylights 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.

ZF4RDL / ZF6RDL EasyLyte LED flex install

4" & 6" Round Downlights



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:

- Available soon in across Lightolier portfolio for application flexibility
- 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
- Helps meet Title 24 requirements

Show your true colors

High color rendering:

- True to life colors to help energize your environment and render better flesh tones critical for healthcare hospitality and retail applications.
- R_a up to 94 CRI
- R₉ up to 67 CRI
- G_a up to 99 CRI
- C₉ up to 94 CRI
- R_f up to 92 TM-30
- R_{r,h1} up to 91 TM-30
- R₉ up to 100 TM-30
- 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

ZF4RDL / ZF6RDL EasyLyte LED flex install

4" & 6" Round Downlights

ZF4RDL - Electrical

All have an input frequency of 50/60Hz

Light engine	Input volts	Input Current	Input Power	LED Drive Current	LED Power	THD Factor @ Max Load	Power Factor @ Max Load
ZF4*05*	120V	0.050A	6.0W	0.15A	5.0W	<10%	>0.9
	277V	0.022A	6.1W	0.15A	5.0W	<15%	>0.9
	347V	0.021A	7.2W	0.15A	5.0W	<15%	>0.9
ZF4*10*	120V	0.074A	8.9W	0.22A	7.4W	<10%	>0.9
	277V	0.033A	9.1W	0.22A	7.4W	<15%	>0.9
	347V	0.030A	10.3W	0.22A	7.4W	<15%	>0.9
ZF4*15*	120V	0.113A	13.6W	0.33A	11.5W	<10%	>0.9
	277V	0.050A	13.9W	0.33A	11.5W	<15%	>0.9
	347V	0.044A	15.4W	0.33A	11.5W	<15%	>0.9
ZF4*20*	120V	0.167A	20.0W	0.50A	17.2W	<10%	>0.9
	277V	0.072A	20.0W	0.50A	17.2W	<15%	>0.9
	347V	0.062A	21.5W	0.50A	17.2W	<15%	>0.9
ZF4*25*	120V	0.216A	25.9W	0.64A	22.5W	<10%	>0.9
	277V	0.094A	25.9W	0.64A	22.5W	<15%	>0.9
	347V	0.078A	27.2W	0.64A	22.5W	<15%	>0.9

ZF6RDL - Electrical

All have an input frequency of 50/60Hz

Light engine	Input volts	Input Current	Input Power	LED Drive Current	LED Power	THD Factor @ Max Load	Power Factor @ Max Load
ZF6*10*	120V	0.070A	8.4W	0.22A	7.1W	<10%	>0.9
	277V	0.031A	8.6W	0.22A	7.1W	<15%	>0.9
	347V	0.028A	9.9W	0.22A	7.1W	<15%	>0.9
ZF6*15*	120V	0.106A	12.8W	0.33A	10.9W	<10%	>0.9
	277V	0.047A	13.1W	0.33A	10.9W	<15%	>0.9
	347V	0.042A	14.5W	0.33A	10.9W	<15%	>0.9
ZF6*20*	120V	0.164A	19.6W	0.50A	16.9W	<10%	>0.9
	277V	0.071A	19.6W	0.50A	16.9W	<15%	>0.9
	347V	0.061A	21.1W	0.50A	16.9W	<15%	>0.9
ZF6*25*	120V	0.204A	24.5W	0.63A	21.3W	<10%	>0.9
	277V	0.089A	24.5W	0.63A	21.3W	<15%	>0.9
	347V	0.074A	25.7W	0.63A	21.3W	<15%	>0.9
ZF6*30*	120V	0.258A	31.0W	0.78A	27.0W	<10%	>0.9
	277V	0.112A	31.0W	0.78A	27.0W	<15%	>0.9
	347V	0.092A	32.1W	0.78A	27.0W	<15%	>0.9
ZF6*35*	120V	0.304A	36.5W	0.90A	31.8W	<10%	>0.9
	277V	0.132A	36.5W	0.90A	31.8W	<15%	>0.9
	347V	0.108A	37.4W	0.90A	31.8W	<15%	>0.9

ZF4RDL - Photometry (open downlight)

Reflector Finish	Flux (lm)	Power (W)	Efficacy (lm/W)	CRI	R9	Beam Angle	Field Angle	Spacing Criterion
Black	459	7.3	62.9	93	58	74°	107°	1.070
White	660	7.3	90.5	93	56	79°	129°	1.130
Clear Diffuse	653	7.3	89.5	93	56	83°	120°	1.178
Black	653	10.0	65.0	93	58	74°	107°	1.070
White	939	10.0	93.4	93	56	79°	129°	1.130
Clear Diffuse	928	10.0	92.4	93	56	83°	120°	1.178
Black	968	14.6	66.3	93	58	74°	107°	1.070
White	1392	14.6	95.4	93	56	79°	129°	1.130
Clear Diffuse	1376	14.6	94.3	93	56	83°	120°	1.178
Black	1453	20.6	70.6	93	58	74°	107°	1.070
White	2089	20.6	101.4	93	56	79°	129°	1.130
Clear Diffuse	2066	20.6	100.3	93	56	83°	120°	1.178
Black	1796	27.4	65.5	93	58	74°	107°	1.070
White	2581	27.4	94.1	93	56	79°	129°	1.130
Clear Diffuse	2552	27.4	93.1	93	56	83°	120°	1.178

ZF6RDL - Photometry (open downlight)

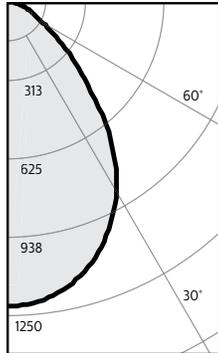
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Clear Diffuse	2066	20.6	100.3	93	56	83°	120°	1.178
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White	2581	27.4	94.1	93	56	79°	129°	1.130
Clear Diffuse	2552	27.4	93.1	93	56	83°	120°	1.178

ZF4RDL / ZF6RDL EasyLyte LED flex install

4" & 6" Round Downlights

Downlight, Wide beam, 2100lm Engine, 102lm/W at 21W

Candela Curves



Engine / Trim:
ZF4RDL20935WOWHZ10U

Output lumens: 2090 lms
Input watts¹: 20.6 W
CRI: 90 min
CCT²: 3500K
Beam Angle: 82°
Spacing Crit.: 1.1

Zonal summary

Zone	Lumens	%Luminaire
0-30	1181	40.7%
0-40	1816	62.6%
0-60	2609	90.0%
0-90	2900	100.0%

Angle	Mean CP	Lumens
0	1215	
5	1205	114
10	1177	
15	1130	318
20	1063	
25	977	448
30	871	
35	742	461
40	593	
45	439	343
50	323	
55	223	204
60	157	
65	116	117
70	88	
75	62	66
80	38	
85	18	20
90	0	

Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*
5'	49	5.5'
6'	34	6.6'
7'	25	7.7'
8'	19	8.8'
9'	15	9.9'

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

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq. ft.
5'	89.0	0.91
6'	58.0	0.60
7'	42.0	0.43
8'	35.0	0.36
9'	28.0	0.29

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

Efficacy: 101.5 lm/w
Report³: STMR-531-I

Coefficients of utilization

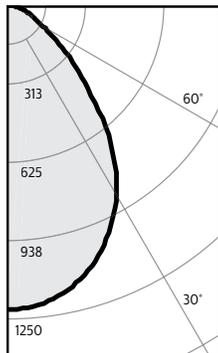
Ceiling	80%				70%		50%		30%		0%	
	70	50	30	10	50	10	50	10	50	10	0	
Wall	70	50	30	10	50	10	50	10	50	10	0	
RCR	Zonal cavity method - Effective floor reflectance = 20%											
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100
	1	111	107	103	100	105	99	101	96	97	93	88
	2	103	96	90	85	94	84	91	83	87	81	77
	3	95	86	79	74	85	73	82	72	79	71	68
	4	88	78	71	65	77	64	74	64	72	63	60
	5	82	71	63	57	70	57	68	57	66	56	54
	6	77	65	57	51	64	51	62	51	61	50	48
	7	72	60	52	46	59	46	57	46	56	46	44
	8	67	55	47	42	54	42	53	42	52	42	40
	9	63	51	43	38	50	38	49	38	48	38	36
	10	59	47	40	35	47	35	46	35	45	35	33

Adjustment factors

Finish
WH = 100%
CD = 98%
BK = 70%

Downlight, Wide beam, 2900lm Engine, 94lm/W at 31W

Candela Curves



Engine / Trim:
ZF6RDL30935WOWHZ10U

Output lumens: 2900 lms
Input watts¹: 30.8 W
CRI: 90 min
CCT²: 3500K
Beam Angle: 82°
Spacing Crit.: 1.14

Zonal summary

Zone	Lumens	%Luminaire
0-30	1181	40.7%
0-40	1816	62.6%
0-60	2609	90.0%
0-90	2900	100.0%

Angle	Mean CP	Lumens
0	1597	
5	1587	151
10	1557	
15	1506	424
20	1429	
25	1325	607
30	1188	
35	1021	635
40	838	
45	651	501
50	471	
55	319	292
60	217	
65	164	165
70	128	
75	92	98
80	58	
85	25	28
90	0	

Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*
5'	64	5.7'
6'	44	6.8'
7'	33	8.0'
8'	25	9.1'
9'	20	10.3'

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

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq. ft.
5'	123.0	1.37
6'	81.0	0.90
7'	58.0	0.64
8'	48.0	0.53
9'	39.0	0.43

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

Efficacy: 94.5 lm/w
Report³: STMR-675

Coefficients of utilization

Ceiling	80%				70%		50%		30%		0%	
	70	50	30	10	50	10	50	10	50	10	0	
Wall	70	50	30	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
	1	111	107	103	100	105	99	101	96	97	93	88
	2	103	96	90	85	94	84	91	83	87	81	77
	3	95	86	79	74	85	73	82	72	79	71	68
	4	88	78	71	65	77	64	74	64	72	63	60
	5	82	71	63	57	70	57	68	57	66	56	54
	6	77	65	57	51	64	51	62	51	61	50	48
	7	72	60	52	46	59	46	57	46	56	46	44
	8	67	55	47	42	54	42	53	42	52	42	40
	9	63	51	43	38	50	38	49	38	48	38	36
	10	59	47	40	35	47	35	46	35	45	35	33

Adjustment factors

Finish
CD = 110%
WH = 100%
BK = 65%

1. Wattage: controlled to within 5%
2. Correlated Color Temperature: within specs as defined in ANSI_NEMA_ANSI C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.
3. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.