



Day-Brite / CFI HRL LED recessed high bay is a high efficiency lay-in style luminaire that provides exceptional light distribution for general areas. Available with high lumen output packages, the HRL is perfect for higher mounting heights or for applications where higher light levels are needed.

Project: _____

Location: _____

Cat.No: _____

Type: _____

Qty: _____

Notes: _____

Ordering guide

example: HRL24L840-UNV-DIM-LFA

Family	Lumens ¹ (nom.)	CRI/CCT	Voltage	Driver	Lens	Options
HRL						
	12L 12,000lm 18L 18,000lm 24L 24,000lm	835 80CRI, 3000K 840 80CRI, 4000K 850 80CRI, 5000K	UNV Universal, 120-277V 347 347V	DIM Dimming (0-10V)	LFA Smooth flat frosted acrylic lens LRA Smooth rounded frosted acrylic lens	F1 3/8" flex, 3 wire 18 gauge 6' F2 3/8" flex, 4 wire 18 gauge 6' F2/5W 3/8" single flex, 5 wire 18 gauge 6' for dimmable luminaires F2/6W 3/8" single flex, 6 wire 18 gauge 6' for dimmable and emergency luminaires BSL10LST ² Factory wired 10W Philips Bodine integral emergency pack, nominal 1400lm to 1700lm

1. Nominal delivered lumens at 25°C ambient.
2. Not available in 347V.

Accessories (order separately)

- **FSF422** 2'x2' surface mount field installation kit (field assembled)
- **FMA22** 2'x2' "F" mounting frame for NEMA "F" ceiling
- **HRL-LFA** 2'x2' Flat replacement lens
- **HRL-LRA** 2'x2' Rounded replacement lens

General notes

- All options are factory installed.
- Many luminaire components, such as reflectors, lenses, sockets, lampholders, and LEDs are made from various types of plastics which can be adversely affected by airborne contaminants. If sulfur based chemicals, petroleum based products, cleaning solutions, or other contaminants are expected in the intended area of use, consult factory for compatibility.

Construction/Finish

- Robust and durable dieformed embossed steel housing and end caps.
- Molded one-piece acrylic diffuser may be removed without tools for access to LED boards and driver(s).
- Unique spring retainers ensure the diffuser is centered in the housing opening at all times.
- Full width luminous lens provides smooth brightness and high visual comfort.
- Lens versions available in smooth flat and convex rounded.
- T-bar grid clips are built into luminaire end caps for quick and easy installation, no extra parts.
- Sheetmetal components are multi-stage phosphate treated for maximum corrosion resistance and finish coat is high reflectance baked white enamel.
- Integral louvers on housing ends allow air flow for luminaire cooling.

- Suitable for use with NEMA G (15/16") and NFG (9/16") suspended t-grid ceilings. NEMA F flange ceilings require the FMA22 or FSF422 accessory (ordered separately).
- Predicted L70 lumen maintenance up to 87,000 hours at 25°C ambient for all configurations.
- 5 year manufacturer's limited warranty. Visit signify.com/warranties for complete warranty information.

Electrical

- Driver and LED board are accessible from below by easy removal of lens.
- Driver is standard 0-10V dimmable to 10%.
- LED boards and drivers are RoHS (Restriction of Hazardous Substances) compliant. Total system life rated at 50,000 hours. Predicted L70 lifetime based on LED manufacturer's supplied LM-80 data and in-situ laboratory testing.
- Emergency battery pack accessible from above. To estimate lumen output in emergency mode, multiply emergency pack wattage by luminaire efficacy, then by 1.10.
- Compliance to CAN ICES-005-A/ NEB-005-A and FCC Part 15-A.

Labels

- cETLus listed to UL 1598 standards. Suitable for use in damp locations and ambient temperature ranges -20°C to 25°C.

HRL Recessed high bay

Models

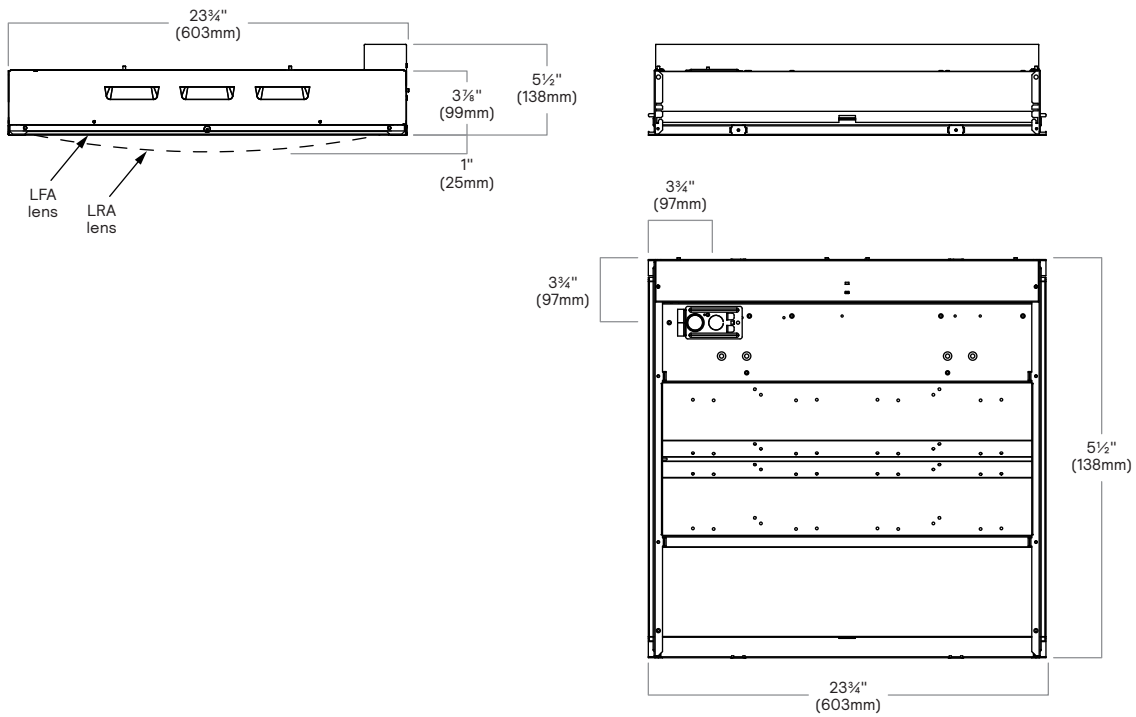


Flat lens



Round lens

Dimensions



HRL Recessed high bay

Photometry

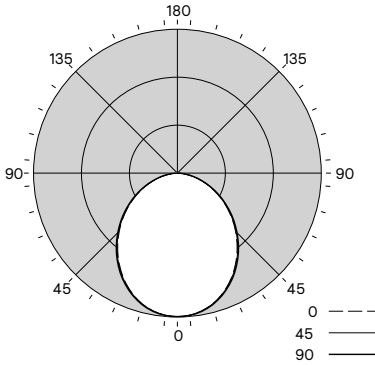
HRL24L840-UNV-DIM-LFA

Luminaire Lumens 24614
Luminaire Efficacy Rating (LER) 144
Total Luminaire Watts 171.2
Spacing Criterion (0-180) 1.2
Spacing Criterion (90-270) 1.2

Candela Distribution						Flux
	0	22.5	45	67.5	90	Lumens
0	9775	9775	9775	9775	9775	
5	9719	9707	9708	9725	9731	922
15	9231	9225	9236	9266	9278	2604
25	8289	8295	8324	8368	8386	3834
35	7025	7037	7083	7136	7161	4431
45	5597	5614	5662	5721	5750	4372
55	4140	4154	4189	4240	4271	3753
65	2717	2725	2746	2783	2802	2729
75	1426	1427	1438	1455	1461	1530
85	382	380	380	376	372	435
90	29	27	25	23	19	

Zonal Lumen Summary			
Zone	Lumens	%Fixture	%Lamp
0-30	7360	29.9%	29.9%
0-40	11791	47.9%	47.9%
0-60	19916	80.9%	80.9%
0-90	24614	100.0%	100.0%

Avg. Luminance (cd/m ²)			
	0	45	90
45	25612	25912	26315
55	23356	23632	24095
65	20804	21023	21452
75	17825	17980	18267
85	14195	14094	13795



Coefficients of Utilization % (Based on a floor reflectance of 0.2)													
Pc---	80				70				50				0
Pw---	70	50	30	10	70	50	30	50	30	10	0		
RCR													
0	119	119	119	119	116	116	116	111	111	111	100		
1	109	104	100	97	106	102	98	98	95	92	84		
2	100	91	85	79	97	90	83	86	81	76	71		
3	91	81	73	66	88	79	72	76	70	65	60		
4	83	72	63	57	81	70	62	68	61	55	52		
5	77	64	55	49	75	63	55	61	54	48	45		
6	71	58	49	43	69	57	49	55	48	42	40		
7	66	53	44	38	64	52	44	50	43	38	35		
8	62	48	40	34	60	48	40	46	39	34	32		
9	58	44	36	31	56	44	36	43	36	31	28		
10	54	41	33	28	53	41	33	40	33	28	26		

*Based on a floor reflectance of 0.2

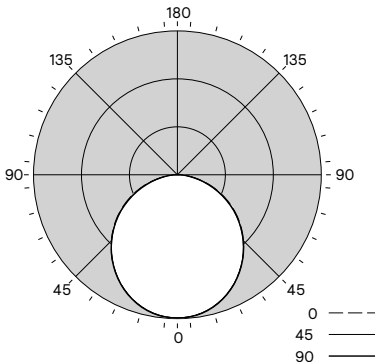
HRL24L840-UNV-DIM-LRA

Luminaire Lumens 22318
Luminaire Efficacy Rating (LER) 130
Total Luminaire Watts 171.1
Spacing Criterion (0-180) 1.2
Spacing Criterion (90-270) 1.24

Candela Distribution						Flux
	0	22.5	45	67.5	90	Lumens
0	7863	7863	7863	7863	7863	
5	7829	7821	7818	7831	7834	743
15	7524	7517	7515	7527	7533	2122
25	6934	6927	6923	6934	6941	3193
35	6113	6106	6099	6105	6114	3820
45	5133	5122	5102	5103	5113	3944
55	4035	4017	3984	3971	3974	3568
65	2823	2804	2765	2730	2726	2738
75	1564	1556	1528	1492	1472	1613
85	459	471	485	477	444	552
90	202	203	203	185	157	

Zonal Lumen Summary			
Zone	Lumens	%Fixture	%Lamp
0-30	6058	27.1%	27.1%
0-40	9877	44.3%	44.3%
0-60	17389	77.9%	77.9%
0-90	22318	100.0%	100.0%

Avg. Luminance (cd/m ²)			
	0	45	90
45	15197	13147	15079
55	12796	10663	12541
65	9963	7948	9562
75	6441	4905	6015
85	2356	1824	2258



Coefficients of Utilization % (Based on a floor reflectance of 0.2)													
Pc---	80				70				50				0
Pw---	70	50	30	10	70	50	30	50	30	10	0		
RCR													
0	119	119	119	119	116	116	116	111	111	111	100		
1	108	103	99	95	106	101	97	97	94	91	83		
2	98	90	83	77	96	88	82	85	79	74	69		
3	90	79	71	64	87	77	70	74	68	62	58		
4	82	70	61	54	80	69	60	66	59	53	49		
5	75	62	53	47	73	61	53	59	52	46	43		
6	70	56	47	41	68	55	47	53	46	40	37		
7	65	51	42	36	63	50	42	49	41	36	33		
8	60	47	38	32	59	46	38	44	37	32	29		
9	56	43	34	29	55	42	34	41	34	29	26		
10	53	39	31	26	51	39	31	38	31	26	24		

*Based on a floor reflectance of 0.2

Photometric Test List

Catalog No.	Lumens Delivered	Input Watts	Efficacy
HRL12L840-UNV-DIM-LFA	12401	84.7	146
HRL12L840-UNV-DIM-LRA	11224	84.6	133
HRL18L840-UNV-DIM-LFA	18087	119.4	151
HRL18L840-UNV-DIM-LRA	16255	119.3	136
HRL24L840-UNV-DIM-LFA	24614	171.2	144
HRL24L840-UNV-DIM-LRA	22318	171.1	130

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Signify North America Corp.
 400 Crossing Blvd, Suite 600
 Bridgewater, NJ 08807
 Telephone: 800-555-0050

Signify Canada Ltd.
 281 Hillmount Road,
 Markham, ON, Canada L6C 2S3
 Telephone: 800-668-9008

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