

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P730643

Luminaire Tested: **HBLED-LD5-18SE-W-FLI-UNV-L835**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730643
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26703)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18SE-W-FLI-UNV-L835
Description: 18000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16169.0 lumens
Efficiency: N/A
Efficacy: 140.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

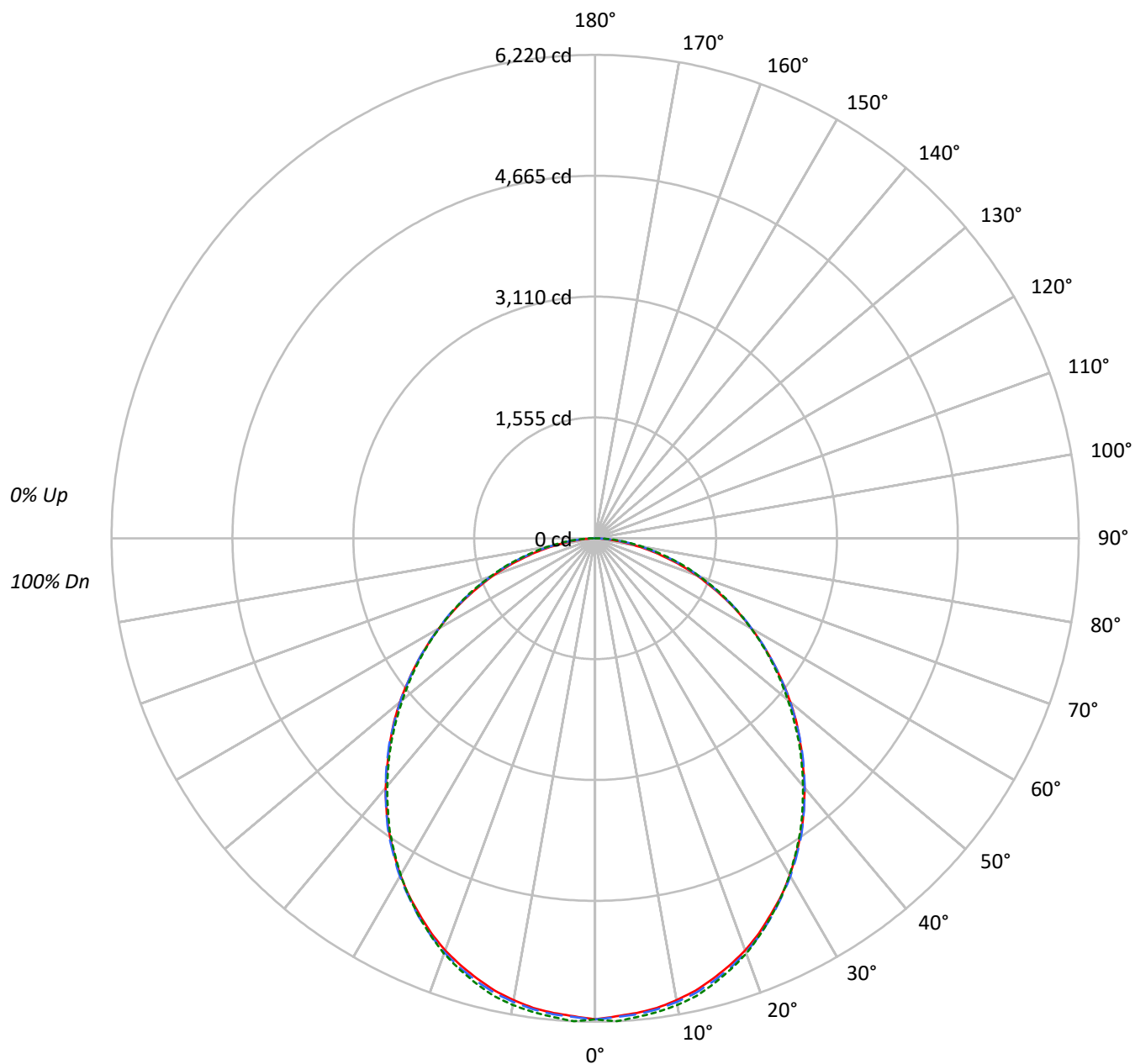
Input Watts (W): 114.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P730643

CATALOG NUMBER: HBLED-LD5-18SE-W-FLI-UNV-L835

Luminous Intensity Polar Plot





TEST NUMBER: P730643

CATALOG NUMBER: HBLED-LD5-18SE-W-FLI-UNV-L835

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84		
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71		
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60		
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51		
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45		
6	71	58	49	42	69	57	48	42	55	47	42	53	47	42	52	46	41	39		
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35		
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31		
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9994	9994	9994
5°	9937	9965	10022
10°	9892	9932	9997
15°	9805	9859	9907
20°	9694	9741	9769
25°	9515	9569	9555
30°	9339	9364	9326
35°	9108	9131	9073
40°	8834	8834	8766
45°	8525	8549	8461
50°	8232	8219	8116
55°	7876	7877	7806
60°	7495	7504	7474
65°	7064	7134	7152
70°	6524	6703	6710
75°	5766	6139	6235
80°	4729	5376	5680
85°	3281	4515	5104



TEST NUMBER: P730643

CATALOG NUMBER: HBLED-LD5-18SE-W-FLI-UNV-L835

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	585.4	3.6
10°-20°	1665.4	10.3
20°-30°	2474.9	15.3
30°-40°	2893.8	17.9
40°-50°	2885.2	17.8
50°-60°	2503.3	15.5
60°-70°	1848.9	11.4
70°-80°	1035.2	6.4
80°-90°	276.2	1.7
90°-100°	0.8	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4725.7	29.2
0°-40°	7619.4	47.1
0°-60°	13007.8	80.4
0°-90°	16168.2	100.0
90°-120°	0.8	0.0
90°-150°	0.8	0.0
90°-180°	1.0	0.0
0°-180°	16169.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6190	6190	6190	6190	6190	
5°	6131	6170	6149	6176	6184	582
15°	5866	5907	5898	5926	5927	1654
25°	5341	5384	5371	5383	5363	2462
35°	4621	4661	4633	4632	4603	2886
45°	3734	3773	3744	3728	3706	2882
55°	2798	2817	2798	2794	2773	2502
65°	1849	1867	1867	1877	1872	1829
75°	924	952	984	991	999	984
85°	177	214	244	265	276	215
90°	0	4	5	11	10	7
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P730643

CATALOG NUMBER: HBLED-LD5-18SE-W-FLI-UNV-L835

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6189.9	6189.9	6189.9	6189.9	6189.9
2.5°	6156.1	6192.8	6167.1	6191.5	6219.9
5°	6131.3	6169.9	6148.6	6175.8	6183.7
7.5°	6095.1	6132.5	6112.0	6139.2	6147.5
10°	6033.7	6074.3	6058.1	6088.8	6097.5
12.5°	5962.0	6000.2	5989.6	6025.4	6031.3
15°	5866.0	5907.0	5897.9	5926.2	5926.6
17.5°	5759.7	5798.3	5791.6	5813.7	5812.8
20°	5642.1	5683.3	5669.2	5693.2	5685.7
22.5°	5502.7	5546.8	5529.0	5549.1	5530.2
25°	5340.9	5383.8	5371.2	5383.0	5363.3
27.5°	5184.2	5223.6	5197.6	5211.7	5190.9
30°	5009.4	5042.9	5022.8	5027.5	5002.4
32.5°	4813.0	4852.8	4828.3	4827.6	4800.8
35°	4620.9	4661.4	4632.7	4631.9	4603.2
37.5°	4408.3	4446.1	4412.3	4414.3	4380.8
40°	4191.4	4224.1	4191.4	4189.9	4159.2
42.5°	3956.0	3999.4	3969.5	3973.0	3932.1
45°	3733.7	3773.4	3743.9	3728.5	3705.7
47.5°	3512.1	3529.4	3504.9	3501.0	3468.8
50°	3277.4	3290.4	3271.9	3267.2	3231.0
52.5°	3035.0	3057.4	3033.8	3027.5	3003.5
55°	2798.0	2817.2	2798.3	2793.6	2773.2
57.5°	2559.4	2584.6	2565.4	2560.6	2544.1
60°	2320.9	2328.4	2323.7	2330.7	2314.6
62.5°	2083.9	2101.2	2106.8	2104.8	2092.2
65°	1848.9	1867.0	1867.4	1876.9	1872.1
67.5°	1608.4	1632.0	1638.8	1648.5	1652.9
70°	1382.0	1400.2	1419.9	1425.7	1421.4
72.5°	1154.1	1183.3	1205.3	1210.4	1228.9
75°	924.3	951.8	984.1	991.2	999.4
77.5°	710.9	747.5	776.6	786.1	796.4
80°	508.6	549.1	578.2	591.2	610.9
82.5°	333.8	375.2	404.7	417.6	441.7
85°	177.1	214.2	243.7	265.3	275.5
87.5°	52.3	83.8	100.7	107.0	116.1
90°	0.0	3.9	4.7	10.6	9.9
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P730643

CATALOG NUMBER: HBLED-LD5-18SE-W-FLI-UNV-L835

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - 90°-270°







107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



(END OF REPORT)