

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: P730589

Luminaire Tested: **HBLED-LD5-18SE-N-CL-UNV-L835**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730589
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23768)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18SE-N-CL-UNV-L835
Description: 18000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16424.0 lumens
Efficiency: N/A
Efficacy: 143.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

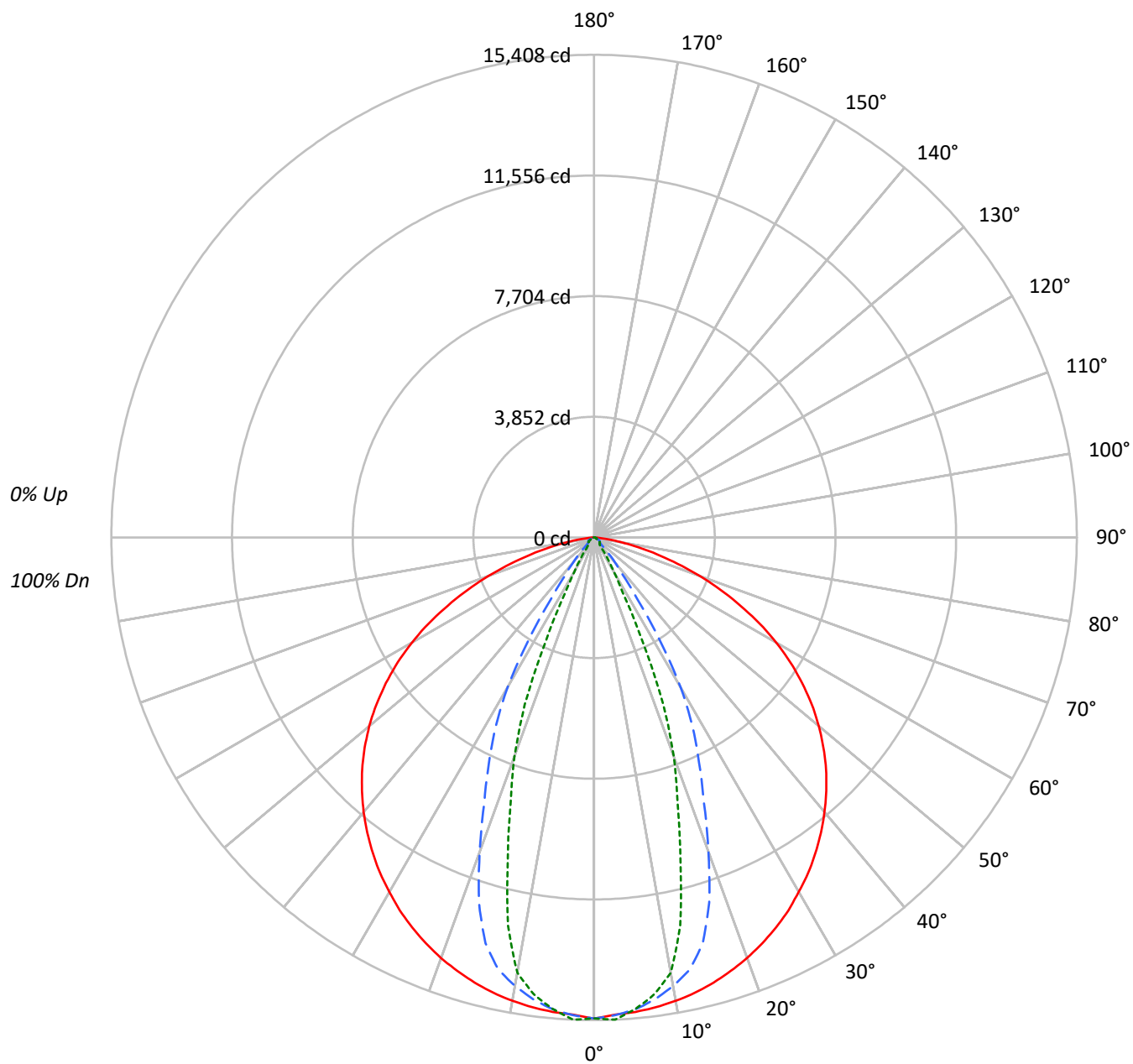
Input Watts (W): 114.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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	112	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90		
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81		
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73		
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66		
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60		
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55		
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51		
8	72	61	55	50	71	61	54	50	60	54	49	59	53	49	58	53	49	47		
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44		
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24795	24795	24795
5°	24643	24514	24496
10°	24626	23836	23133
15°	24598	22415	17787
20°	24550	18343	12758
25°	24473	14133	6483
30°	24357	10314	2359
35°	24270	4737	821
40°	24121	2150	567
45°	23906	802	574
50°	23525	582	604
55°	22829	613	460
60°	21694	655	406
65°	19674	499	330
70°	16868	360	304
75°	12893	319	289
80°	8067	299	314
85°	2547	350	422



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1429.7	8.7
10°-20°	3601.6	21.9
20°-30°	3922.3	23.9
30°-40°	2934.1	17.9
40°-50°	2109.7	12.8
50°-60°	1295.7	7.9
60°-70°	745.5	4.5
70°-80°	332.8	2.0
80°-90°	52.8	0.3
90°-100°	0.0	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°	8953.6	54.5
0°-40°	11887.6	72.4
0°-60°	15292.9	93.1
0°-90°	16424.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16424.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15357	15357	15357	15357	15357	
5°	15204	15276	15125	15139	15114	###
15°	14716	14434	13410	11516	10641	4154
25°	13737	12752	7933	5090	3639	6332
35°	12313	8831	2403	706	416	7702
45°	10470	4962	351	260	252	8066
55°	8110	1031	218	211	164	7231
65°	5150	113	130	108	86	5097
75°	2067	68	51	53	46	2243
85°	138	13	19	24	23	274
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15356.8	15356.8	15356.8	15356.8	15356.8
2.5°	15250.0	15349.8	15265.7	15341.1	15407.9
5°	15204.4	15275.9	15125.1	15139.2	15114.1
7.5°	15125.8	15143.1	14870.5	14765.1	14714.0
10°	15020.5	14974.2	14538.8	14288.2	14109.8
12.5°	14887.7	14734.5	14126.2	13231.2	12697.6
15°	14715.6	14433.5	13409.6	11516.5	10641.0
17.5°	14510.5	14119.2	12222.9	9598.2	8840.7
20°	14288.2	13771.8	10675.6	8161.0	7425.4
22.5°	14025.7	13327.8	9149.5	6787.3	5777.5
25°	13737.3	12751.8	7933.1	5089.9	3639.3
27.5°	13426.1	11991.9	6806.9	3121.3	1967.7
30°	13064.6	11067.0	5532.3	1751.7	1265.2
32.5°	12711.7	9988.8	3952.0	1166.9	808.6
35°	12313.3	8831.3	2403.1	706.5	416.5
37.5°	11891.3	7779.0	1504.1	384.3	287.6
40°	11444.2	6781.0	1020.0	272.7	268.8
42.5°	10966.4	5878.0	638.9	259.3	267.9
45°	10469.7	4961.8	351.3	260.1	251.5
47.5°	9930.7	3966.9	245.2	246.0	245.2
50°	9365.7	2845.5	231.9	242.8	240.5
52.5°	8756.6	1766.6	232.6	237.3	213.0
55°	8109.9	1031.0	217.7	210.6	163.5
57.5°	7430.1	642.8	213.0	173.7	146.9
60°	6718.1	339.5	202.7	156.4	125.7
62.5°	5959.8	167.4	162.6	133.6	103.0
65°	5149.6	113.2	130.5	108.4	86.4
67.5°	4366.9	102.1	98.3	88.8	75.4
70°	3573.2	93.5	76.2	77.8	64.4
72.5°	2794.5	84.8	61.3	66.8	54.2
75°	2066.8	68.4	51.1	52.6	46.4
77.5°	1438.1	53.5	40.1	44.8	43.2
80°	867.6	33.8	32.2	36.9	33.8
82.5°	420.4	22.0	25.2	29.0	26.7
85°	137.5	13.3	18.9	24.3	22.8
87.5°	17.3	7.9	15.7	21.2	19.6
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)