

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: P730603

Luminaire Tested: **HBLED-LD5-18SE-N-CLI-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730603
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23769)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18SE-N-CLI-UNV-L850
Description: 18000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17018.0 lumens
Efficiency: N/A
Efficacy: 148.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

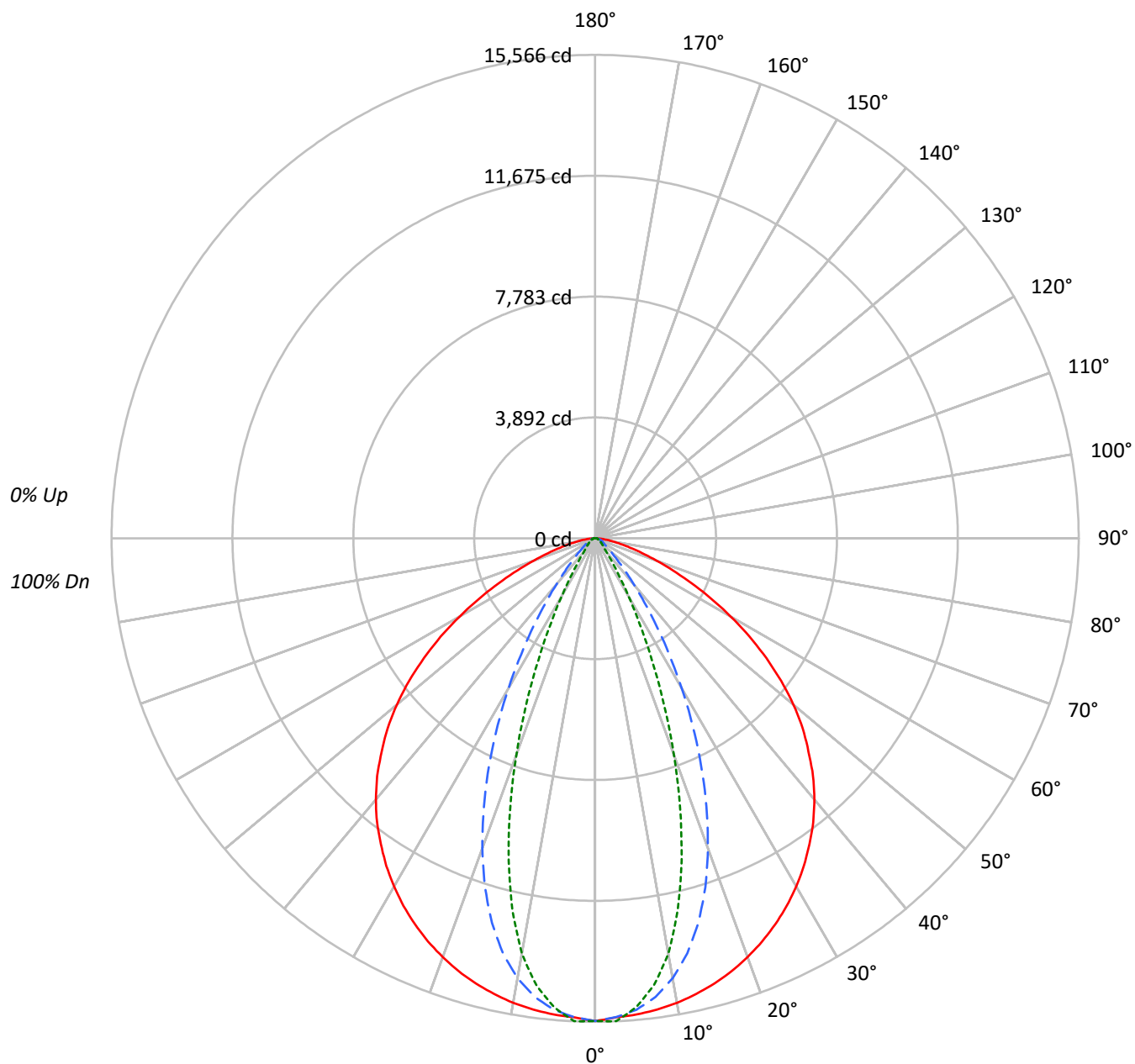
Input Watts (W): 114.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90		
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81		
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72		
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65		
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60		
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55		
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50		
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46		
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43		
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25098	25098	25098
5°	24947	24699	24569
10°	24906	23581	22252
15°	24805	21435	17971
20°	24656	18239	12737
25°	24436	14382	7696
30°	24139	10380	3955
35°	23703	6786	1975
40°	23141	4076	1153
45°	22180	2434	862
50°	20919	1592	724
55°	18933	1208	632
60°	16271	1028	576
65°	13087	938	544
70°	9860	1005	541
75°	7253	955	556
80°	5306	951	609
85°	3974	1154	787



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1431.6	8.4
10°-20°	3561.5	20.9
20°-30°	3944.9	23.2
30°-40°	3160.5	18.6
40°-50°	2256.2	13.3
50°-60°	1449.2	8.5
60°-70°	785.4	4.6
70°-80°	335.7	2.0
80°-90°	93.1	0.5
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°	8937.9	52.5
0°-40°	12098.4	71.1
0°-60°	15803.9	92.9
0°-90°	17018.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17018.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15545	15545	15545	15545	15545	
5°	15392	15450	15239	15191	15159	###
15°	14840	14376	12823	11332	10751	4187
25°	13716	12094	8073	5260	4320	6319
35°	12026	8698	3443	1389	1002	7519
45°	9714	5021	1066	454	378	7487
55°	6726	2245	429	264	224	5994
65°	3426	922	246	170	142	3430
75°	1163	337	153	106	89	1292
85°	214	89	62	52	42	262
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15544.7	15544.7	15544.7	15544.7	15544.7
2.5°	15442.4	15539.0	15435.0	15499.6	15566.0
5°	15392.4	15449.8	15239.3	15191.0	15159.1
7.5°	15305.6	15289.2	14893.8	14637.5	14513.9
10°	15191.0	15058.3	14382.9	13819.6	13572.4
12.5°	15027.3	14753.8	13691.0	12702.0	12282.8
15°	14839.8	14375.6	12823.2	11332.3	10751.0
17.5°	14615.4	13933.4	11785.8	9863.5	9096.3
20°	14350.1	13399.6	10615.1	8302.9	7412.9
22.5°	14053.8	12783.9	9361.5	6747.3	5792.7
25°	13716.5	12094.5	8072.9	5259.6	4319.7
27.5°	13352.1	11329.0	6791.5	3930.0	3072.7
30°	12947.6	10500.4	5567.5	2833.7	2121.4
32.5°	12506.3	9619.5	4430.3	1992.8	1450.8
35°	12025.8	8698.4	3442.8	1388.6	1002.1
37.5°	11533.7	7758.4	2600.3	981.6	718.9
40°	10979.4	6821.8	1933.9	718.9	546.9
42.5°	10384.2	5903.2	1431.2	553.4	442.9
45°	9713.6	5021.3	1066.0	453.6	377.5
47.5°	9063.5	4199.4	809.7	386.4	328.3
50°	8328.3	3457.6	633.7	337.3	288.2
52.5°	7548.0	2805.0	514.2	297.2	253.8
55°	6726.0	2245.0	429.0	263.6	224.4
57.5°	5893.3	1778.3	366.8	234.9	199.8
60°	5038.6	1422.2	318.5	210.4	178.4
62.5°	4204.3	1137.3	278.4	189.1	159.7
65°	3425.6	921.9	245.6	169.5	142.4
67.5°	2705.9	728.7	229.3	152.3	128.6
70°	2088.6	567.4	212.9	135.9	114.6
72.5°	1582.6	435.6	188.4	121.2	101.5
75°	1162.6	337.3	153.1	106.4	89.2
77.5°	831.9	259.6	124.4	92.5	77.0
80°	570.7	193.3	102.3	79.4	65.5
82.5°	370.9	136.8	82.7	65.5	54.0
85°	214.5	89.2	62.3	51.6	42.5
87.5°	92.5	49.1	42.5	38.5	32.7
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)