

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: P730531

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730531
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-LD5-18HE-N-CLI-UNV-L850
Description: 18000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17315.0 lumens
Efficiency: N/A
Efficacy: 157.1 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

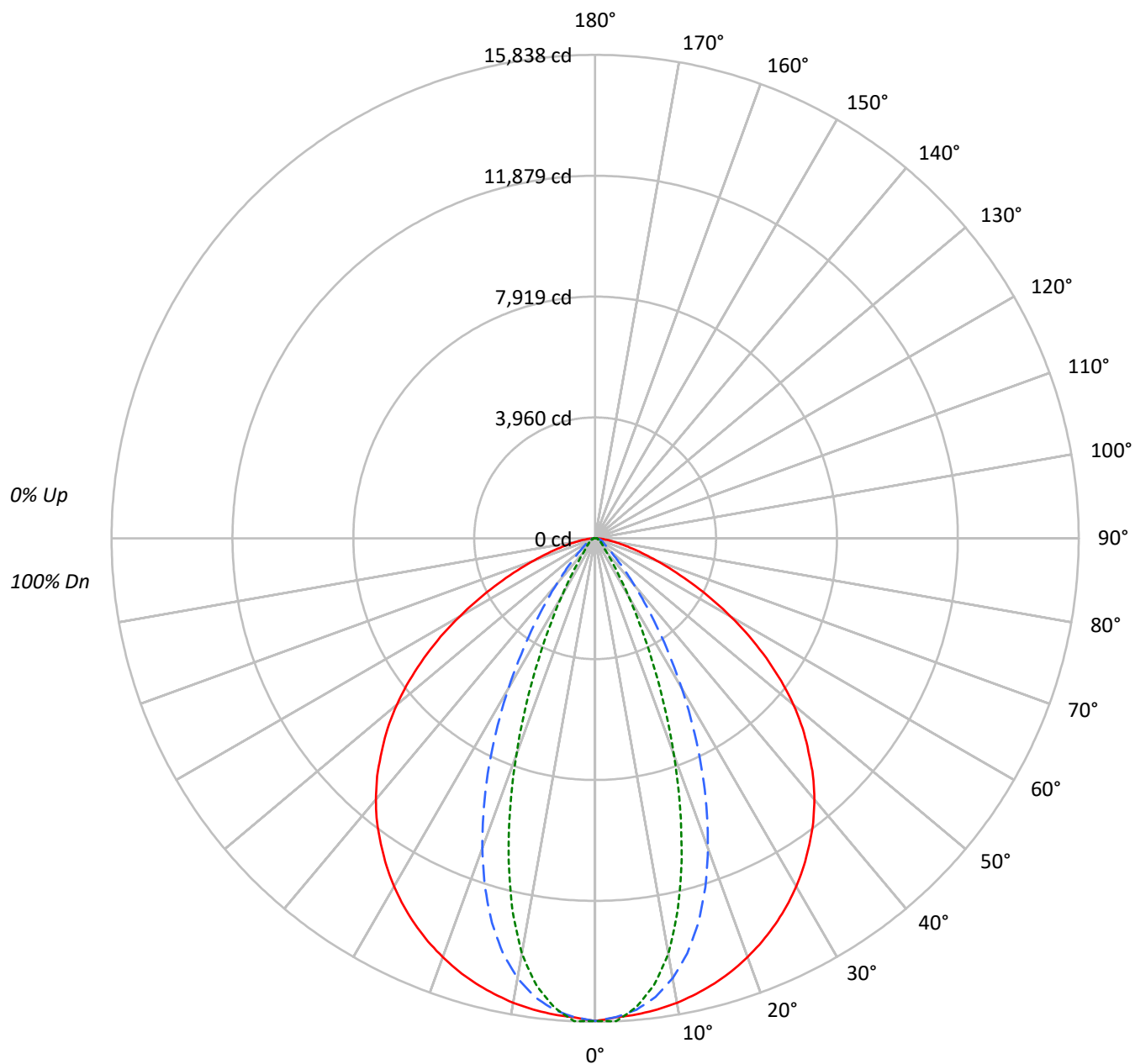
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	25536	25536	25536
5°	25383	25130	24998
10°	25340	23992	22640
15°	25238	21809	18284
20°	25087	18557	12959
25°	24862	14633	7830
30°	24560	10561	4024
35°	24117	6904	2010
40°	23545	4147	1173
45°	22567	2477	877
50°	21285	1620	736
55°	19264	1229	643
60°	16554	1046	586
65°	13316	955	554
70°	10032	1023	550
75°	7379	972	566
80°	5398	968	620
85°	4044	1175	802



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1456.6	8.4
10°-20°	3623.6	20.9
20°-30°	4013.7	23.2
30°-40°	3215.7	18.6
40°-50°	2295.6	13.3
50°-60°	1474.5	8.5
60°-70°	799.1	4.6
70°-80°	341.5	2.0
80°-90°	94.7	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°	9093.9	52.5
0°-40°	12309.6	71.1
0°-60°	16079.7	92.9
0°-90°	17315.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17315.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15816	15816	15816	15816	15816	
5°	15661	15719	15505	15456	15424	###
15°	15099	14626	13047	11530	10939	4260
25°	13956	12306	8214	5351	4395	6429
35°	12236	8850	3503	1413	1020	7650
45°	9883	5109	1085	462	384	7618
55°	6843	2284	436	268	228	6099
65°	3485	938	250	172	145	3490
75°	1183	343	156	108	91	1314
85°	218	91	63	52	43	267
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15816.0	15816.0	15816.0	15816.0	15816.0
2.5°	15711.9	15810.2	15704.3	15770.1	15837.6
5°	15661.0	15719.4	15505.2	15456.1	15423.7
7.5°	15572.7	15556.1	15153.8	14893.0	14767.2
10°	15456.1	15321.1	14633.9	14060.8	13809.2
12.5°	15289.5	15011.3	13930.0	12923.7	12497.2
15°	15098.7	14626.4	13047.0	11530.1	10938.6
17.5°	14870.5	14176.6	11991.5	10035.6	9255.0
20°	14600.6	13633.5	10800.3	8447.8	7542.3
22.5°	14299.1	13007.0	9524.9	6865.0	5893.8
25°	13955.8	12305.6	8213.8	5351.4	4395.1
27.5°	13585.2	11526.7	6910.0	3998.6	3126.3
30°	13173.6	10683.7	5664.6	2883.2	2158.4
32.5°	12724.6	9787.4	4507.6	2027.6	1476.2
35°	12235.6	8850.2	3502.9	1412.8	1019.6
37.5°	11734.9	7893.8	2645.7	998.8	731.4
40°	11171.0	6940.8	1967.7	731.4	556.4
42.5°	10565.4	6006.2	1456.2	563.1	450.7
45°	9883.1	5109.0	1084.6	461.5	384.1
47.5°	9221.7	4272.7	823.9	393.2	334.0
50°	8473.7	3517.9	644.8	343.2	293.2
52.5°	7679.8	2854.0	523.1	302.4	258.2
55°	6843.4	2284.2	436.5	268.2	228.3
57.5°	5996.2	1809.3	373.2	239.0	203.3
60°	5126.5	1447.0	324.0	214.1	181.6
62.5°	4277.7	1157.1	283.2	192.4	162.5
65°	3485.4	938.0	249.9	172.4	144.9
67.5°	2753.1	741.4	233.3	154.9	130.8
70°	2125.0	577.3	216.6	138.3	116.6
72.5°	1610.2	443.2	191.6	123.3	103.3
75°	1182.9	343.2	155.8	108.3	90.8
77.5°	846.4	264.1	126.6	94.1	78.3
80°	580.6	196.6	104.1	80.8	66.7
82.5°	377.4	139.2	84.1	66.7	54.9
85°	218.3	90.8	63.4	52.5	43.3
87.5°	94.1	49.9	43.3	39.2	33.3
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)