

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: P731095

Luminaire Tested: **HBLED-LD5-48SE-N-CLI-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731095
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-LD5-48SE-N-CLI-UNV-L850
Description: 48000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42946.0 lumens
Efficiency: N/A
Efficacy: 150.4 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

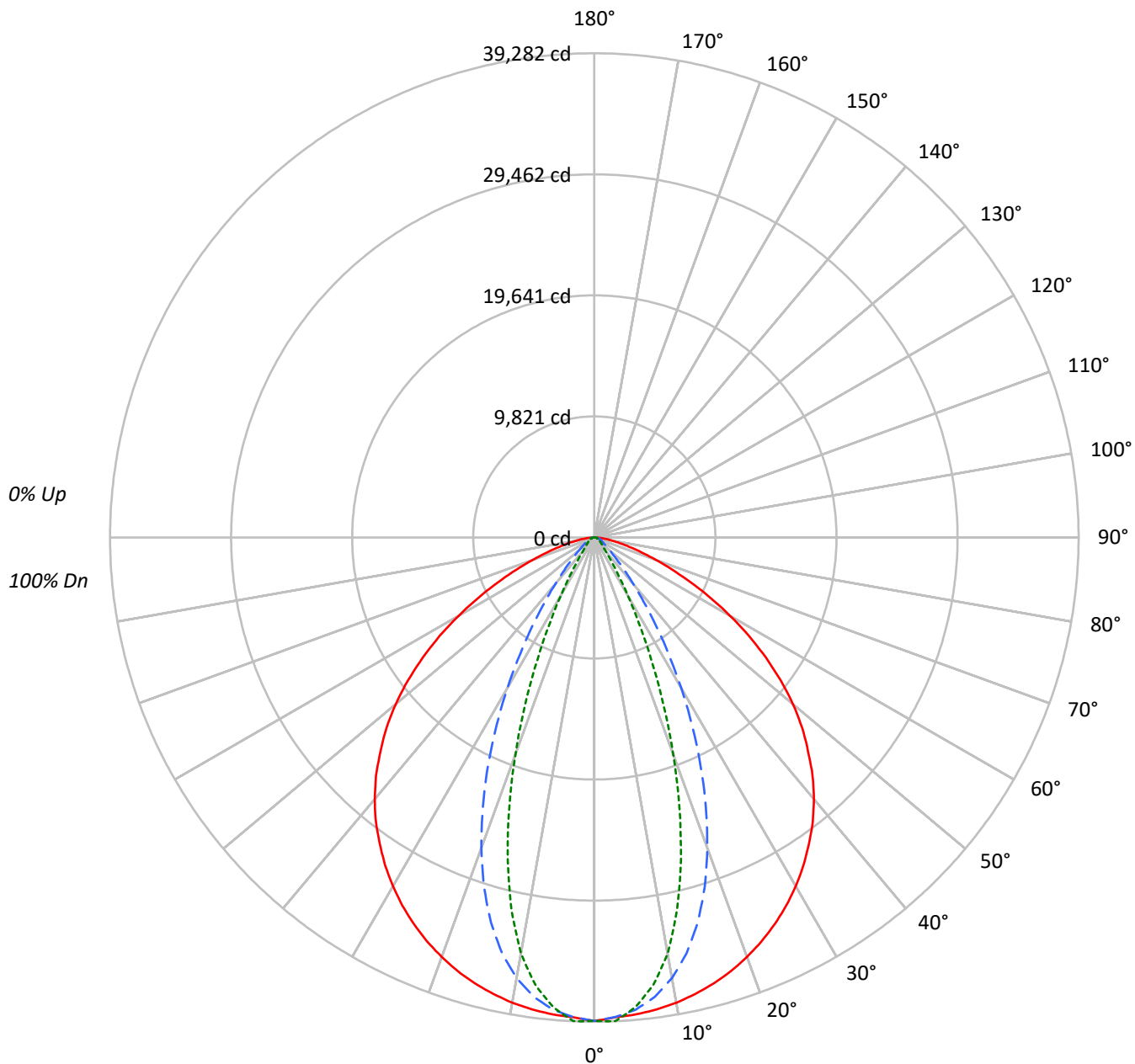
Input Watts (W): 285.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	63337	63337	63337
5°	62956	62330	62002
10°	62851	59507	56154
15°	62598	54091	45350
20°	62222	46027	32142
25°	61665	36293	19420
30°	60917	26194	9981
35°	59817	17125	4985
40°	58398	10286	2909
45°	55972	6143	2175
50°	52792	4017	1827
55°	47779	3047	1594
60°	41059	2595	1454
65°	33027	2368	1373
70°	24882	2536	1366
75°	18302	2410	1405
80°	13390	2401	1538
85°	10030	2910	1990



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3612.7	8.4
10°-20°	8987.6	20.9
20°-30°	9955.1	23.2
30°-40°	7975.8	18.6
40°-50°	5693.7	13.3
50°-60°	3657.1	8.5
60°-70°	1981.9	4.6
70°-80°	847.1	2.0
80°-90°	234.9	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°	22555.4	52.5
0°-40°	30531.2	71.1
0°-60°	39882.0	92.9
0°-90°	42946.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	42946.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	39228	39228	39228	39228	39228	
5°	38844	38988	38457	38335	38255	###
15°	37449	36278	32360	28598	27131	10566
25°	34614	30521	20372	13273	10901	15946
35°	30348	21951	8688	3504	2529	18975
45°	24513	12672	2690	1145	953	18894
55°	16973	5665	1083	665	566	15127
65°	8645	2326	620	428	360	8657
75°	2934	851	386	269	225	3260
85°	541	225	157	130	107	661
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	39228.0	39228.0	39228.0	39228.0	39228.0
2.5°	38969.8	39213.6	38951.1	39114.3	39281.7
5°	38843.7	38988.5	38457.3	38335.4	38255.0
7.5°	38624.7	38583.4	37585.6	36938.8	36626.7
10°	38335.4	38000.7	36296.1	34874.7	34250.7
12.5°	37922.2	37232.2	34550.2	32054.3	30996.5
15°	37449.1	36277.6	32360.1	28597.8	27130.7
17.5°	36882.9	35161.8	29742.3	24891.1	22955.0
20°	36213.5	33814.7	26787.8	20952.9	18706.9
22.5°	35465.6	32261.0	23624.4	17027.1	14618.2
25°	34614.3	30521.2	20372.4	13273.0	10901.0
27.5°	33695.0	28589.5	17138.8	9917.6	7754.2
30°	32674.2	26498.5	14049.8	7151.1	5353.5
32.5°	31560.5	24275.3	11180.1	5029.0	3661.3
35°	30347.8	21950.9	8688.1	3504.1	2528.9
37.5°	29105.9	19578.9	6562.1	2477.2	1814.1
40°	27707.1	17215.1	4880.3	1814.1	1380.1
42.5°	26205.1	14897.0	3611.7	1396.6	1117.8
45°	24512.9	12671.7	2690.2	1144.7	952.6
47.5°	22872.4	10597.4	2043.4	975.2	828.5
50°	21017.0	8725.5	1599.2	851.3	727.2
52.5°	19047.9	7078.7	1297.5	750.0	640.5
55°	16973.4	5665.3	1082.6	665.3	566.2
57.5°	14872.2	4487.6	925.6	592.9	504.2
60°	12715.1	3588.9	803.7	531.0	450.3
62.5°	10609.8	2869.9	702.4	477.3	402.9
65°	8644.8	2326.4	619.8	427.7	359.5
67.5°	6828.5	1838.9	578.6	384.3	324.5
70°	5270.7	1431.8	537.3	343.0	289.3
72.5°	3993.8	1099.3	475.3	305.8	256.2
75°	2933.8	851.3	386.4	268.6	225.2
77.5°	2099.3	655.1	314.1	233.4	194.3
80°	1440.1	487.7	258.2	200.4	165.4
82.5°	936.1	345.1	208.6	165.4	136.3
85°	541.4	225.2	157.1	130.2	107.4
87.5°	233.4	123.9	107.4	97.2	82.6
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)