

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: P731065

Luminaire Tested: **HBLED-LD5-48HE-N-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731065
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23767)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-48HE-N-UNV-L850
Description: 48000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46960.0 lumens
Efficiency: N/A
Efficacy: 178.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

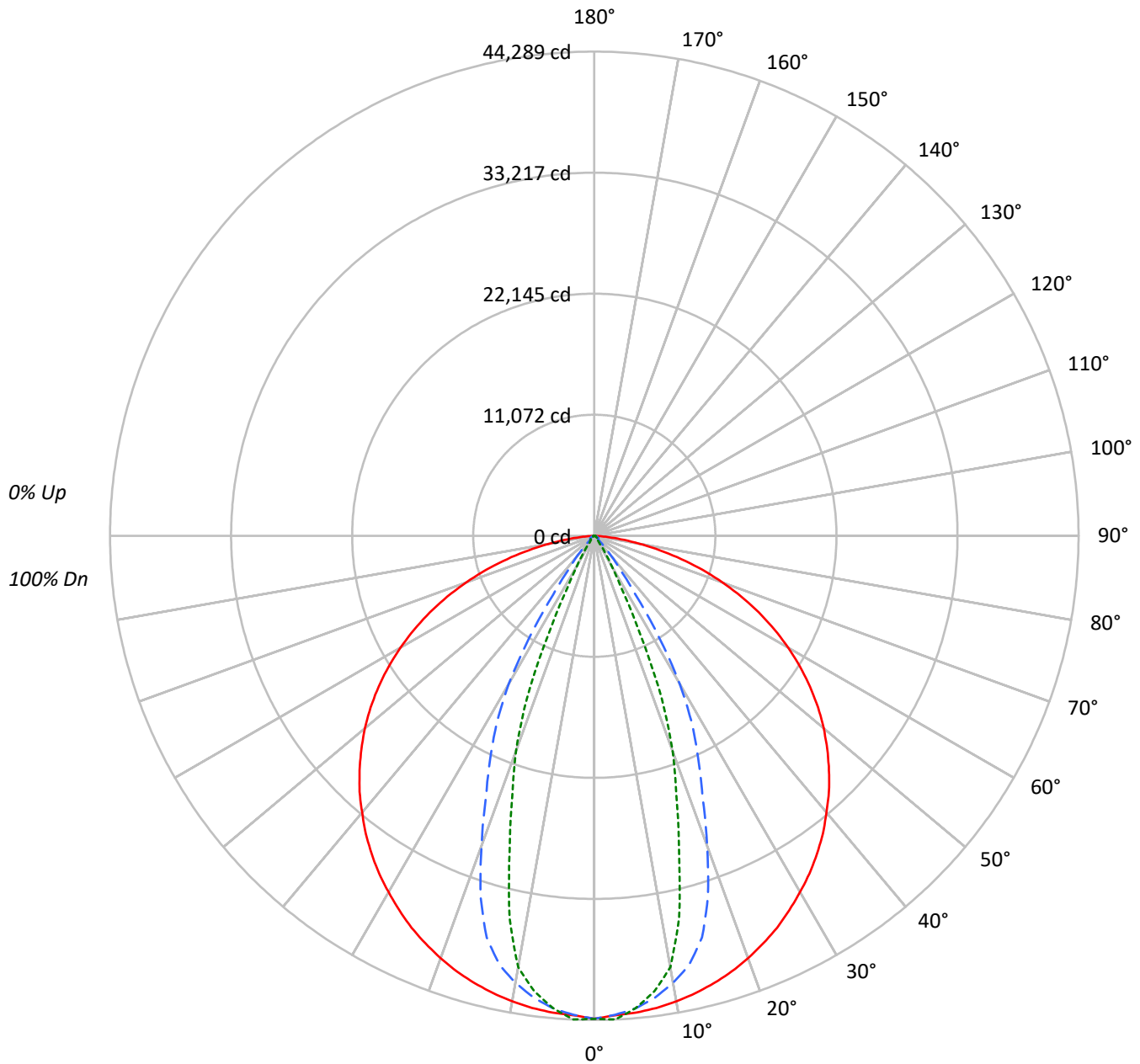
Input Watts (W): 263
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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	76		81	77	74
4	92	82	76	70	90	81	75	70		79	73	69		77	72	68		75	71	67
5	86	76	69	64	84	75	68	63		73	67	63		71	66	62		70	65	62
6	81	70	63	58	79	70	63	58		68	62	58		66	61	57		65	60	57
7	76	66	58	54	75	65	58	53		63	57	53		62	57	53		61	56	52
8	72	61	54	49	71	61	54	49		59	53	49		58	53	49		57	52	49
9	68	57	51	46	67	57	50	46		56	50	46		55	49	46		54	49	45
10	65	54	47	43	64	53	47	43		53	47	43		52	46	43		51	46	42

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	71336	71336	71336
5°	70954	70327	70297
10°	70910	68074	65686
15°	70810	63597	49990
20°	70645	51844	35984
25°	70465	40087	17726
30°	70154	29134	5749
35°	69988	12925	1479
40°	69622	5249	997
45°	69310	1473	1061
50°	68770	1045	1177
55°	67779	1242	503
60°	66106	1384	305
65°	63387	883	361
70°	58887	784	447
75°	51515	590	616
80°	38518	723	880
85°	19079	934	1167



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4100.2	8.7
10°-20°	10252.5	21.8
20°-30°	11105.0	23.6
30°-40°	8223.7	17.5
40°-50°	5923.2	12.6
50°-60°	3667.6	7.8
60°-70°	2255.5	4.8
70°-80°	1189.0	2.5
80°-90°	243.4	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°	25457.6	54.2
0°-40°	33681.3	71.7
0°-60°	43272.1	92.1
0°-90°	46960.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	46960.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	44182	44182	44182	44182	44182	
5°	43778	43940	43392	43423	43373	###
15°	42362	41378	38047	32355	29907	11958
25°	39554	36231	22502	14156	9950	18225
35°	35508	25032	6558	1543	750	22214
45°	30354	14103	645	466	464	23409
55°	24078	2905	441	399	179	21495
65°	16592	307	231	147	95	16370
75°	8258	72	95	124	99	8722
85°	1030	27	50	76	63	###
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	44182.1	44182.1	44182.1	44182.1	44182.1
2.5°	43898.4	44178.0	43848.0	44093.9	44289.3
5°	43778.5	43940.4	43391.8	43423.3	43372.9
7.5°	43568.3	43530.5	42607.9	42204.3	42027.8
10°	43251.1	43000.9	41521.3	40678.5	40064.7
12.5°	42841.2	42282.1	40165.6	37485.8	35821.2
15°	42361.9	41378.3	38046.9	32355.3	29906.6
17.5°	41790.2	40396.8	34583.1	27117.5	24931.8
20°	41115.5	39301.7	30173.5	23071.6	20942.5
22.5°	40363.0	37969.1	25890.2	19174.8	16137.7
25°	39553.9	36231.0	22501.9	14155.6	9949.9
27.5°	38618.6	33996.8	19324.0	8337.9	5078.0
30°	37628.8	31306.4	15626.9	4485.2	3083.4
32.5°	36630.3	28256.7	11057.6	2801.7	1748.7
35°	35508.0	25032.5	6557.6	1542.7	750.4
37.5°	34337.2	22077.4	3875.7	702.1	481.3
40°	33032.1	19376.7	2490.6	466.5	472.8
42.5°	31771.0	16858.7	1402.0	460.2	468.7
45°	30354.2	14103.0	645.2	466.5	464.5
47.5°	28889.3	11246.7	418.2	470.8	470.8
50°	27378.3	8041.6	416.1	481.3	468.7
52.5°	25782.9	5017.1	433.0	479.3	384.7
55°	24078.3	2904.7	441.3	399.3	178.7
57.5°	22312.8	1712.9	445.6	229.1	100.9
60°	20471.5	947.9	428.7	170.2	94.6
62.5°	18573.6	451.9	338.4	159.8	92.4
65°	16591.6	306.9	231.1	147.0	94.6
67.5°	14534.0	237.4	182.8	138.7	96.7
70°	12474.2	176.5	166.1	138.7	94.6
72.5°	10380.9	119.8	138.7	140.7	94.6
75°	8257.9	71.5	94.6	124.1	98.7
77.5°	6154.0	44.1	73.5	128.2	119.8
80°	4142.6	37.8	77.8	119.8	94.6
82.5°	2431.9	33.7	75.8	92.4	75.8
85°	1029.9	27.4	50.4	75.8	63.0
87.5°	193.3	23.2	40.0	60.9	54.6
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)