

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: P731077

Luminaire Tested: **HBLED-LD5-48HE-W-CLI-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731077
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23766)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-48HE-W-CLI-UNV-L850
Description: 48000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS
INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45302.0 lumens
Efficiency: N/A
Efficacy: 172.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

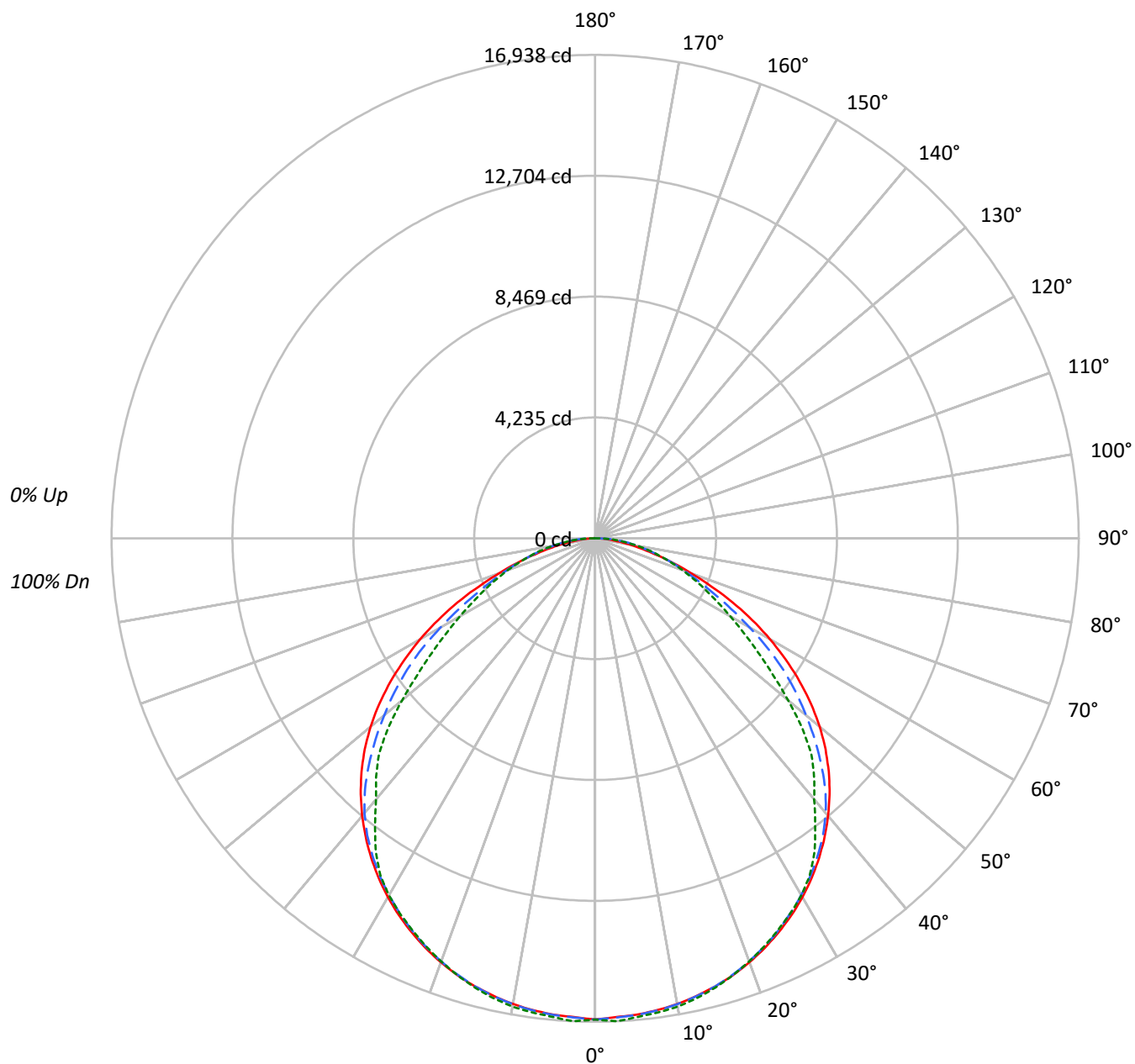
Input Watts (W): 263
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85		
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71		
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61		
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52		
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45		
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40		
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35		
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31		
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28		
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	27225	27225	27225
5°	27151	27171	27293
10°	27167	27180	27323
15°	27170	27167	27231
20°	27163	27101	27107
25°	27122	27021	26988
30°	27077	26915	26930
35°	26951	26784	26405
40°	26759	26486	25150
45°	26419	25574	24455
50°	25784	24212	22148
55°	24610	22644	19584
60°	22839	20204	17661
65°	20300	17493	16240
70°	16847	15633	15308
75°	13626	14307	14485
80°	10823	13684	13627
85°	8473	14700	14024



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1599.1	3.5
10°-20°	4599.6	10.2
20°-30°	7013.6	15.5
30°-40°	8485.4	18.7
40°-50°	8594.9	19.0
50°-60°	7103.9	15.7
60°-70°	4692.0	10.4
70°-80°	2446.6	5.4
80°-90°	767.0	1.7
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°	13212.2	29.2
0°-40°	21697.6	47.9
0°-60°	37396.4	82.5
0°-90°	45302.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	45302.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16862	16862	16862	16862	16862	
5°	16752	16854	16764	16837	16839	###
15°	16254	16337	16252	16303	16291	4590
25°	15224	15285	15168	15206	15149	7020
35°	13674	13692	13589	13570	13396	8553
45°	11570	11540	11200	10852	10710	8909
55°	8742	8613	8044	7263	6957	7792
65°	5314	5160	4579	4281	4251	5248
75°	2184	2222	2293	2324	2322	2379
85°	457	589	794	787	757	555
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16861.6	16861.6	16861.6	16861.6	16861.6
2.5°	16790.9	16890.0	16806.9	16879.8	16938.5
5°	16752.3	16853.6	16764.5	16837.4	16839.4
7.5°	16677.6	16778.7	16687.5	16760.4	16758.4
10°	16570.1	16665.4	16578.2	16665.4	16665.4
12.5°	16424.5	16517.5	16432.6	16513.4	16501.3
15°	16254.5	16337.4	16252.5	16303.0	16290.8
17.5°	16054.0	16129.0	16033.7	16076.2	16052.0
20°	15809.1	15877.9	15772.7	15827.4	15776.6
22.5°	15533.7	15598.5	15491.2	15531.9	15475.0
25°	15224.2	15284.9	15167.5	15205.9	15149.2
27.5°	14890.0	14944.7	14813.1	14859.8	14815.1
30°	14523.7	14550.1	14436.7	14497.5	14444.8
32.5°	14114.8	14131.1	14031.7	14086.4	13997.4
35°	13673.5	13691.7	13588.6	13570.3	13396.2
37.5°	13201.9	13210.0	13112.9	12948.8	12661.4
40°	12695.9	12691.9	12566.4	12187.8	11932.7
42.5°	12155.3	12153.4	11932.7	11501.5	11355.9
45°	11570.3	11540.1	11199.9	10851.8	10710.0
47.5°	10943.0	10910.5	10434.8	10157.6	9835.6
50°	10264.8	10208.1	9639.2	9260.7	8817.5
52.5°	9534.0	9446.9	8868.1	8256.7	7837.7
55°	8742.5	8613.0	8044.3	7262.9	6957.3
57.5°	7918.8	7726.4	7173.8	6412.8	6163.8
60°	7072.6	6858.0	6256.8	5631.4	5469.3
62.5°	6202.1	5989.7	5376.3	4904.7	4815.6
65°	5313.6	5159.6	4578.7	4281.2	4250.9
67.5°	4402.7	4348.0	3904.6	3752.9	3740.7
70°	3568.7	3558.6	3311.6	3234.6	3242.7
72.5°	2852.2	2840.0	2803.6	2765.0	2767.1
75°	2184.2	2222.5	2293.4	2323.7	2321.9
77.5°	1629.5	1708.5	1858.2	1918.9	1908.8
80°	1164.0	1281.4	1471.7	1528.3	1465.6
82.5°	775.2	898.7	1123.4	1131.5	1080.9
85°	457.4	589.0	793.5	787.4	757.0
87.5°	226.7	354.2	475.7	455.4	435.2
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)