

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: P731076

Luminaire Tested: **HBLED-LD5-48HE-W-CLI-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731076
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-L840
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: 44431.0 lumens
Efficiency: N/A
Efficacy: 168.9 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

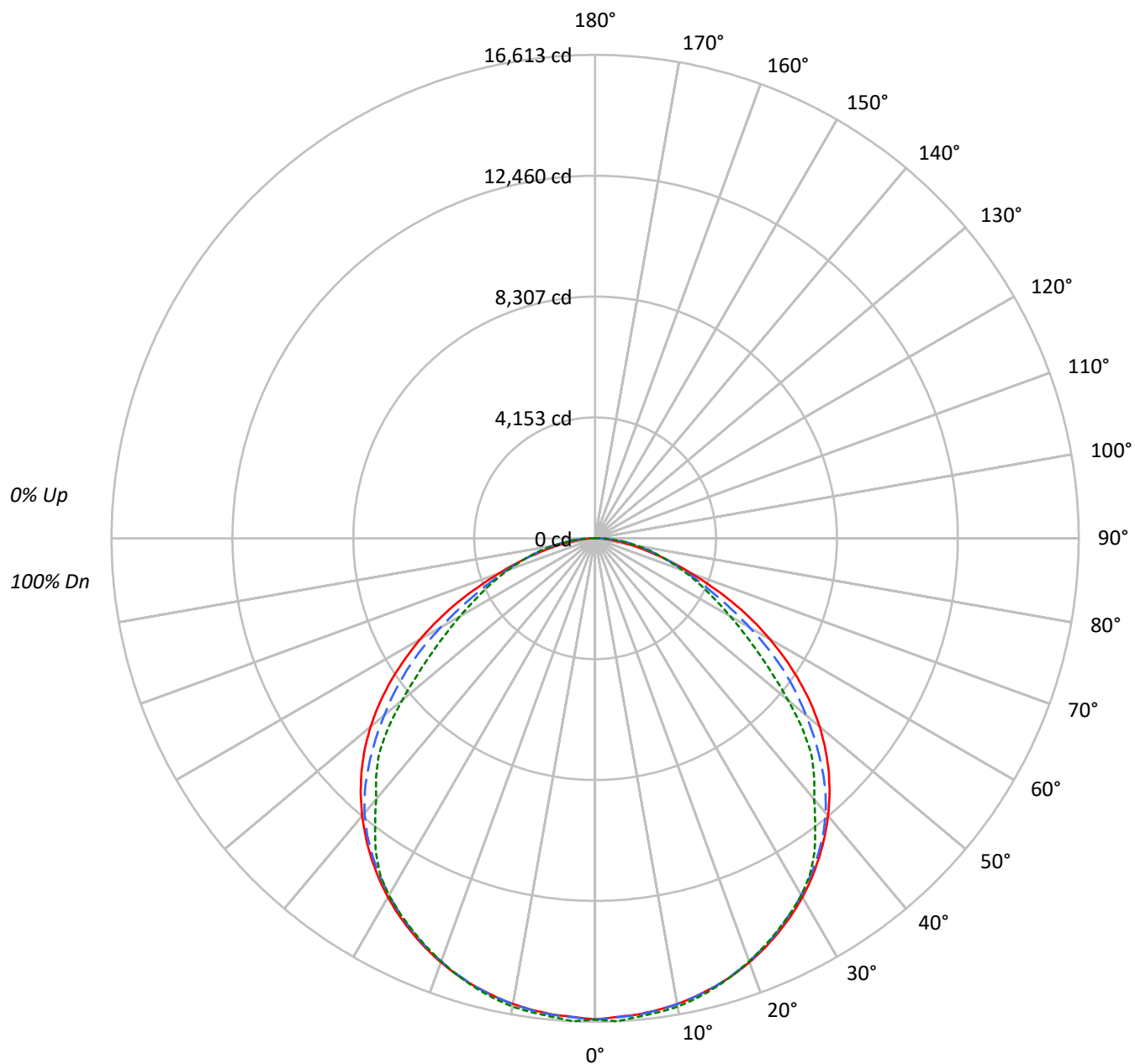
Input Watts (W): 263
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	26701	26701	26701
5°	26629	26649	26768
10°	26644	26657	26797
15°	26648	26644	26707
20°	26641	26580	26586
25°	26600	26501	26469
30°	26557	26398	26413
35°	26433	26269	25897
40°	26245	25977	24667
45°	25911	25082	23985
50°	25288	23747	21722
55°	24137	22209	19208
60°	22400	19816	17322
65°	19910	17156	15928
70°	16523	15332	15014
75°	13364	14032	14206
80°	10615	13421	13365
85°	8310	14418	13753



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1568.3	3.5
10°-20°	4511.1	10.2
20°-30°	6878.7	15.5
30°-40°	8322.2	18.7
40°-50°	8429.7	19.0
50°-60°	6967.3	15.7
60°-70°	4601.8	10.4
70°-80°	2399.6	5.4
80°-90°	752.2	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°	12958.2	29.2
0°-40°	21280.4	47.9
0°-60°	36677.4	82.5
0°-90°	44431.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	44431.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16537	16537	16537	16537	16537	
5°	16430	16530	16442	16514	16516	###
15°	15942	16023	15940	15990	15978	4502
25°	14931	14991	14876	14914	14858	6885
35°	13411	13428	13327	13309	13139	8388
45°	11348	11318	10984	10643	10504	8738
55°	8574	8447	7890	7123	6824	7642
65°	5211	5060	4491	4199	4169	5147
75°	2142	2180	2249	2279	2277	2334
85°	449	578	778	772	742	545
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16537.4	16537.4	16537.4	16537.4	16537.4
2.5°	16468.1	16565.3	16483.8	16555.3	16612.9
5°	16430.2	16529.6	16442.2	16513.7	16515.7
7.5°	16356.9	16456.1	16366.7	16438.2	16436.2
10°	16251.5	16344.9	16259.5	16344.9	16344.9
12.5°	16108.7	16199.9	16116.7	16195.9	16184.0
15°	15942.0	16023.2	15940.0	15989.6	15977.6
17.5°	15745.4	15818.9	15725.4	15767.1	15743.4
20°	15505.1	15572.7	15469.5	15523.1	15473.3
22.5°	15235.0	15298.6	15193.4	15233.2	15177.5
25°	14931.4	14991.0	14875.9	14913.5	14857.9
27.5°	14603.8	14657.3	14528.3	14574.1	14530.3
30°	14244.4	14270.3	14159.2	14218.7	14167.1
32.5°	13843.4	13859.4	13762.0	13815.5	13728.3
35°	13410.6	13428.5	13327.3	13309.4	13138.7
37.5°	12948.0	12956.0	12860.8	12699.8	12418.0
40°	12451.8	12447.9	12324.7	11953.4	11703.2
42.5°	11921.6	11919.8	11703.2	11280.4	11137.5
45°	11347.9	11318.2	10984.5	10643.1	10504.1
47.5°	10732.6	10700.7	10234.2	9962.3	9646.5
50°	10067.4	10011.9	9453.9	9082.6	8648.0
52.5°	9350.7	9265.3	8697.6	8098.0	7687.0
55°	8574.5	8447.4	7889.6	7123.3	6823.5
57.5°	7766.5	7577.9	7035.9	6289.5	6045.2
60°	6936.7	6726.1	6136.5	5523.1	5364.2
62.5°	6082.9	5874.5	5273.0	4810.4	4723.0
65°	5211.4	5060.4	4490.7	4198.9	4169.2
67.5°	4318.0	4264.4	3829.6	3680.8	3668.8
70°	3500.1	3490.1	3247.9	3172.4	3180.4
72.5°	2797.3	2785.4	2749.7	2711.9	2713.9
75°	2142.2	2179.8	2249.3	2279.0	2277.2
77.5°	1598.2	1675.6	1822.5	1882.0	1872.1
80°	1141.6	1256.7	1443.4	1499.0	1437.4
82.5°	760.3	881.4	1101.8	1109.7	1060.1
85°	448.6	577.7	778.3	772.3	742.4
87.5°	222.3	347.4	466.5	446.6	426.9
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)