

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: P731075

Luminaire Tested: **HBLED-LD5-48HE-W-CLI-UNV-L835**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731075
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-L835
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: 43187.0 lumens
Efficiency: N/A
Efficacy: 164.2 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

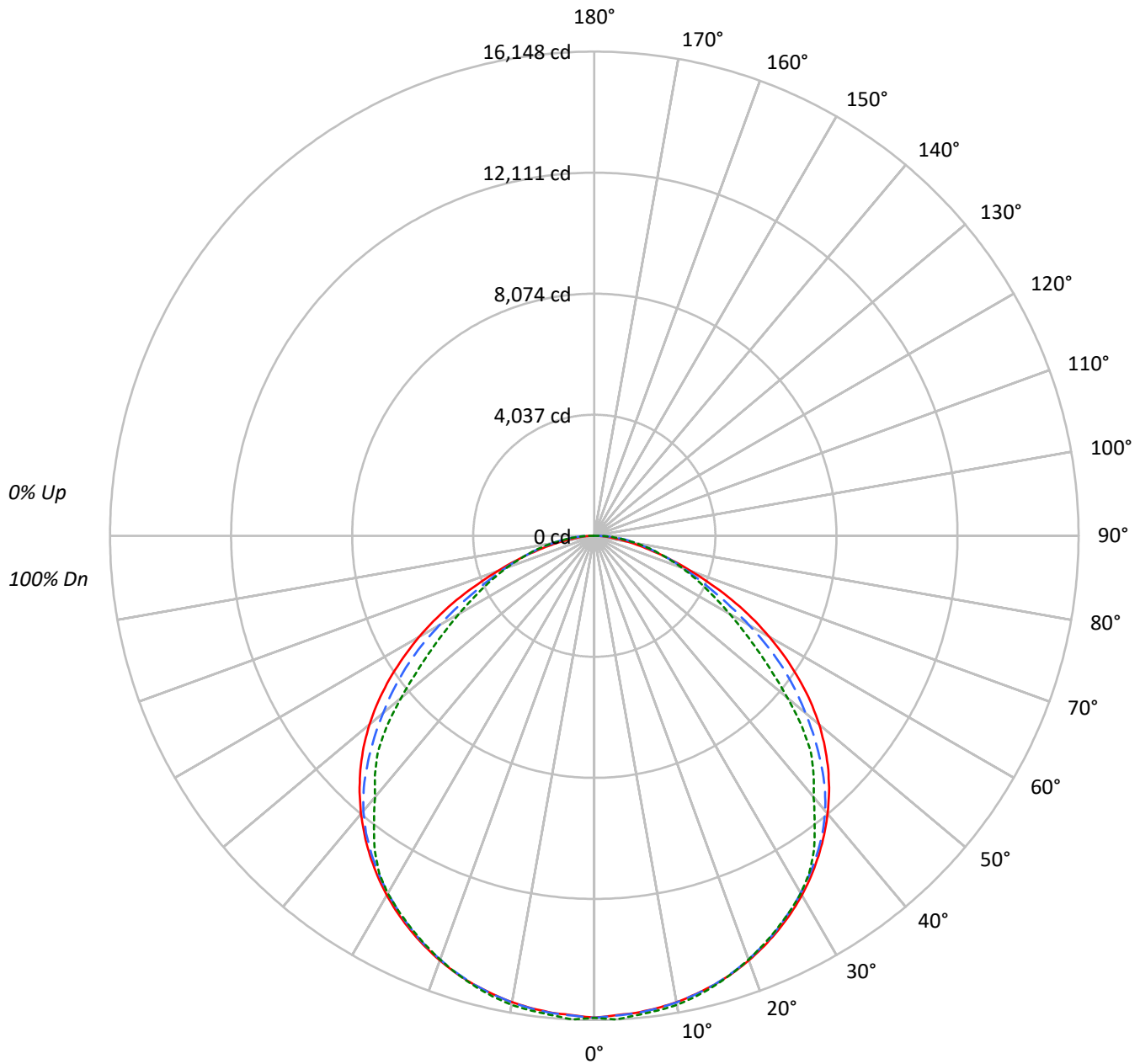
Input Watts (W): 263
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	25954	25954	25954
5°	25884	25903	26018
10°	25898	25911	26047
15°	25902	25898	25960
20°	25895	25836	25842
25°	25856	25759	25728
30°	25813	25659	25673
35°	25693	25533	25172
40°	25510	25250	23976
45°	25186	24380	23313
50°	24580	23082	21114
55°	23461	21587	18670
60°	21772	19261	16837
65°	19352	16676	15482
70°	16060	14903	14593
75°	12989	13639	13808
80°	10317	13045	12991
85°	8077	14014	13368



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1524.4	3.5
10°-20°	4384.8	10.2
20°-30°	6686.1	15.5
30°-40°	8089.2	18.7
40°-50°	8193.6	19.0
50°-60°	6772.3	15.7
60°-70°	4472.9	10.4
70°-80°	2332.4	5.4
80°-90°	731.2	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°	12595.4	29.2
0°-40°	20684.6	47.9
0°-60°	35650.5	82.5
0°-90°	43187.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	43187.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16074	16074	16074	16074	16074	
5°	15970	16067	15982	16051	16053	###
15°	15496	15575	15494	15542	15530	4376
25°	14513	14571	14459	14496	14442	6692
35°	13035	13052	12954	12937	12771	8153
45°	11030	11001	10677	10345	10210	8493
55°	8334	8211	7669	6924	6632	7428
65°	5066	4919	4365	4081	4052	5003
75°	2082	2119	2186	2215	2214	2268
85°	436	562	756	751	722	529
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16074.4	16074.4	16074.4	16074.4	16074.4
2.5°	16007.0	16101.5	16022.3	16091.8	16147.7
5°	15970.2	16066.8	15981.8	16051.3	16053.2
7.5°	15898.9	15995.4	15908.4	15977.9	15976.0
10°	15796.5	15887.3	15804.3	15887.3	15887.3
12.5°	15657.7	15746.4	15665.4	15742.5	15730.9
15°	15495.6	15574.6	15493.7	15541.9	15530.3
17.5°	15304.5	15376.0	15285.2	15325.6	15302.6
20°	15071.0	15136.7	15036.4	15088.4	15040.0
22.5°	14808.5	14870.2	14768.0	14806.7	14752.5
25°	14513.4	14571.3	14459.4	14496.0	14441.9
27.5°	14194.9	14247.0	14121.5	14166.0	14123.4
30°	13845.6	13870.8	13762.7	13820.6	13770.5
32.5°	13455.8	13471.3	13376.6	13428.7	13343.9
35°	13035.1	13052.5	12954.2	12936.7	12770.8
37.5°	12585.5	12593.3	12500.7	12344.3	12070.3
40°	12103.2	12099.3	11979.7	11618.8	11375.6
42.5°	11587.8	11586.0	11375.6	10964.5	10825.7
45°	11030.2	11001.3	10677.0	10345.1	10210.0
47.5°	10432.1	10401.1	9947.6	9683.3	9376.4
50°	9785.6	9731.5	9189.2	8828.3	8405.8
52.5°	9088.9	9005.9	8454.0	7871.2	7471.8
55°	8334.4	8210.9	7668.7	6923.9	6632.5
57.5°	7549.1	7365.7	6838.9	6113.4	5876.0
60°	6742.4	6537.8	5964.7	5368.5	5214.0
62.5°	5912.6	5710.1	5125.3	4675.7	4590.7
65°	5065.5	4918.7	4365.0	4081.3	4052.5
67.5°	4197.1	4145.0	3722.3	3577.7	3566.1
70°	3402.1	3392.4	3157.0	3083.6	3091.3
72.5°	2719.0	2707.4	2672.7	2635.9	2637.9
75°	2082.2	2118.8	2186.4	2215.2	2213.5
77.5°	1553.4	1628.7	1771.4	1829.3	1819.6
80°	1109.6	1221.6	1403.0	1457.0	1397.2
82.5°	739.0	856.8	1070.9	1078.7	1030.4
85°	436.0	561.5	756.5	750.7	721.6
87.5°	216.1	337.7	453.5	434.1	414.9
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)