

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: P731072

Luminaire Tested: **HBLED-LD5-48HE-W-CLI-UNV-L735**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731072
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-L735
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: 45178.0 lumens
Efficiency: N/A
Efficacy: 171.8 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

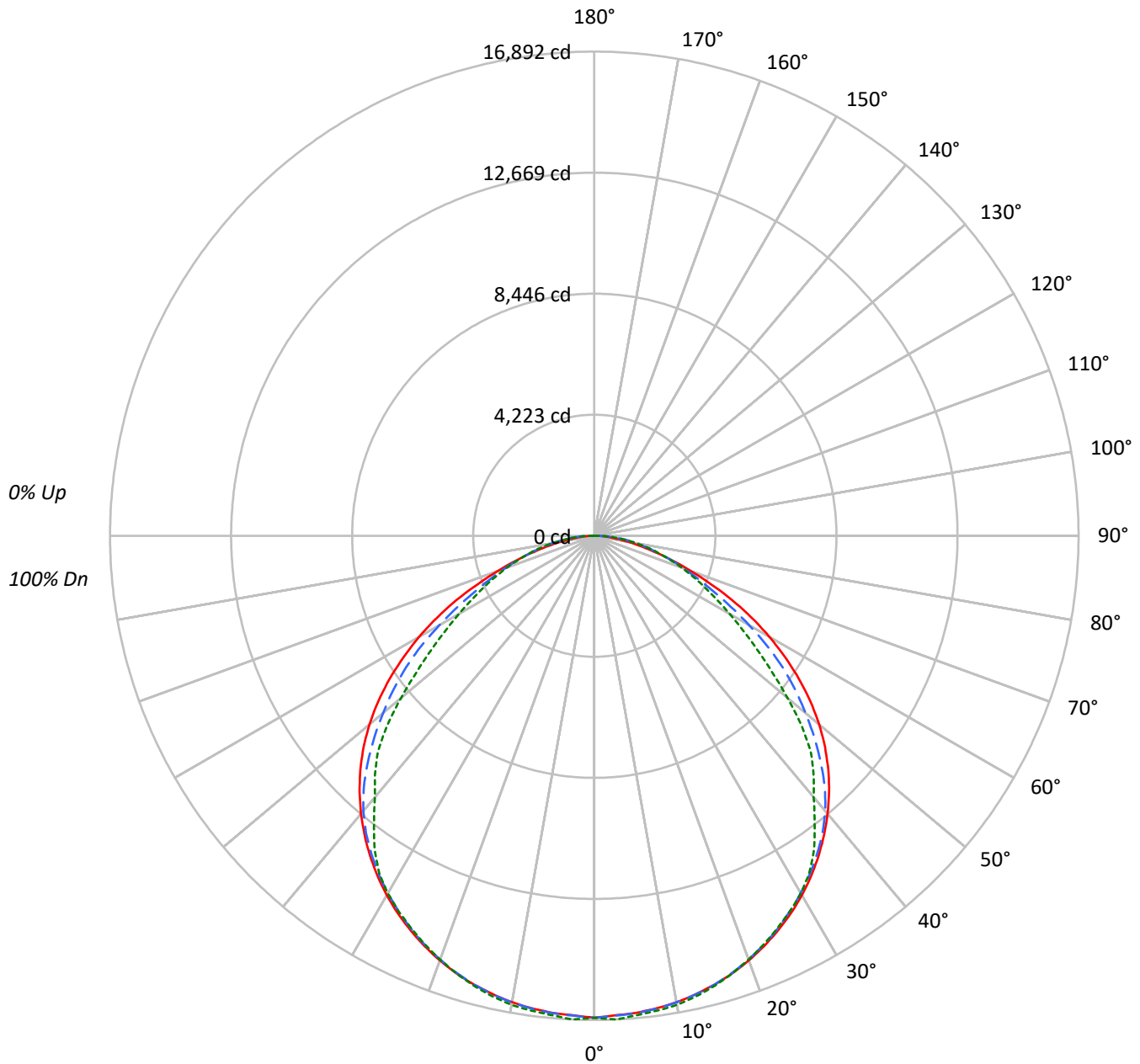
Input Watts (W): 263
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	27150	27150	27150
5°	27077	27097	27218
10°	27092	27106	27248
15°	27096	27092	27156
20°	27089	27027	27033
25°	27048	26947	26914
30°	27003	26842	26857
35°	26877	26710	26332
40°	26686	26414	25082
45°	26347	25503	24388
50°	25713	24146	22088
55°	24542	22582	19531
60°	22776	20149	17613
65°	20245	17445	16196
70°	16801	15590	15266
75°	13588	14268	14445
80°	10793	13647	13590
85°	8449	14659	13985



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1594.7	3.5
10°-20°	4587.0	10.2
20°-30°	6994.4	15.5
30°-40°	8462.1	18.7
40°-50°	8571.4	19.0
50°-60°	7084.5	15.7
60°-70°	4679.2	10.4
70°-80°	2439.9	5.4
80°-90°	764.9	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°	13176.0	29.2
0°-40°	21638.2	47.9
0°-60°	37294.1	82.5
0°-90°	45178.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	45178.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16815	16815	16815	16815	16815	
5°	16706	16808	16719	16791	16793	###
15°	16210	16293	16208	16258	16246	4577
25°	15182	15243	15126	15164	15108	7001
35°	13636	13654	13551	13533	13360	8529
45°	11539	11508	11169	10822	10681	8885
55°	8719	8589	8022	7243	6938	7771
65°	5299	5146	4566	4270	4239	5234
75°	2178	2216	2287	2317	2316	2373
85°	456	587	791	785	755	554
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16815.4	16815.4	16815.4	16815.4	16815.4
2.5°	16744.9	16843.8	16760.9	16833.6	16892.2
5°	16706.4	16807.5	16718.6	16791.3	16793.3
7.5°	16631.9	16732.8	16641.8	16714.5	16712.5
10°	16524.8	16619.8	16532.9	16619.8	16619.8
12.5°	16379.5	16472.3	16387.6	16468.2	16456.1
15°	16210.0	16292.6	16208.0	16258.4	16246.3
17.5°	16010.1	16084.8	15989.8	16032.2	16008.1
20°	15765.8	15834.5	15729.6	15784.0	15733.4
22.5°	15491.2	15555.8	15448.8	15489.3	15432.6
25°	15182.5	15243.0	15126.0	15164.3	15107.7
27.5°	14849.3	14903.8	14772.5	14819.1	14774.6
30°	14483.9	14510.2	14397.2	14457.8	14405.3
32.5°	14076.2	14092.4	13993.3	14047.8	13959.1
35°	13636.0	13654.3	13551.4	13533.1	13359.6
37.5°	13165.7	13173.8	13077.0	12913.4	12626.7
40°	12661.2	12657.1	12532.0	12154.4	11900.0
42.5°	12122.0	12120.2	11900.0	11470.0	11324.8
45°	11538.7	11508.5	11169.2	10822.1	10680.7
47.5°	10913.0	10880.6	10406.2	10129.8	9808.7
50°	10236.7	10180.2	9612.9	9235.3	8793.4
52.5°	9507.9	9421.0	8843.8	8234.1	7816.3
55°	8718.6	8589.4	8022.3	7243.1	6938.2
57.5°	7897.1	7705.3	7154.1	6395.2	6146.9
60°	7053.3	6839.2	6239.6	5616.0	5454.4
62.5°	6185.2	5973.3	5361.6	4891.3	4802.4
65°	5299.0	5145.5	4566.2	4269.5	4239.3
67.5°	4390.6	4336.1	3894.0	3742.7	3730.5
70°	3558.9	3548.8	3302.5	3225.8	3233.9
72.5°	2844.4	2832.2	2796.0	2757.5	2759.5
75°	2178.2	2216.5	2287.2	2317.3	2315.5
77.5°	1625.0	1703.8	1853.1	1913.7	1903.5
80°	1160.8	1277.9	1467.7	1524.2	1461.6
82.5°	773.1	896.3	1120.3	1128.4	1078.0
85°	456.1	587.4	791.3	785.3	754.9
87.5°	226.0	353.2	474.4	454.1	434.1
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)