

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: P731084

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731084
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-003-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-48HE-W-UNV-L735
Description: 48000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48631.0 lumens
Efficiency: N/A
Efficacy: 184.9 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.31 / 1.43
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

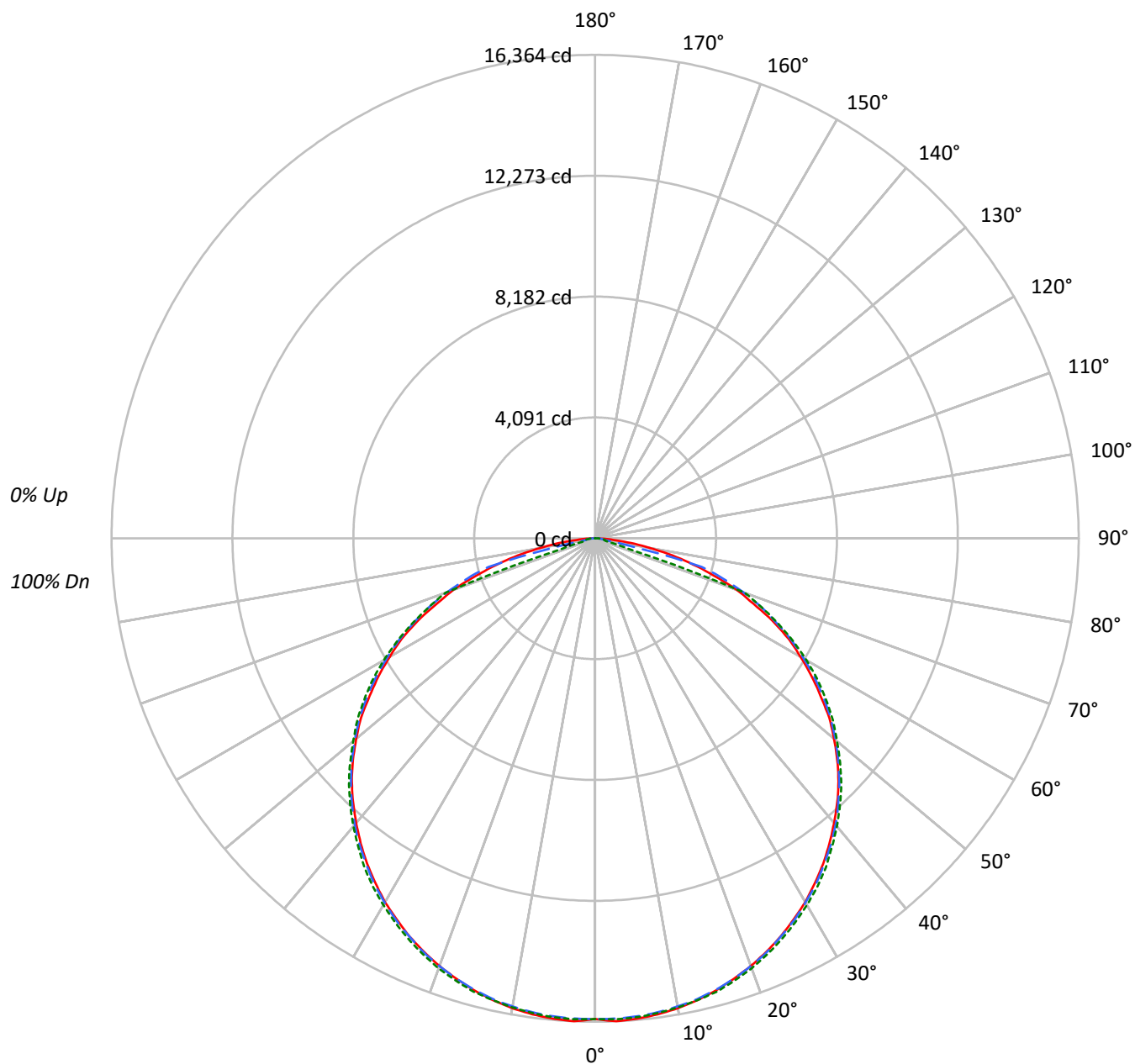
Input Watts (W): 263
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72
3	90	80	72	65	88	78	71	64	75	69	63	72	67	62	70	65	61
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26275	26275	26275
5°	26463	26328	26375
10°	26478	26383	26436
15°	26474	26438	26559
20°	26472	26478	26616
25°	26485	26498	26659
30°	26514	26548	26724
35°	26509	26595	26816
40°	26513	26681	26827
45°	26588	26687	26902
50°	26507	26662	26835
55°	26216	26583	26869
60°	25918	26339	26667
65°	25345	25871	26065
70°	24062	25088	25396
75°	21462	23271	2804
80°	17258	2899	3067
85°	11484	3761	3827



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1545.6	3.2
10°-20°	4466.0	9.2
20°-30°	6861.8	14.1
30°-40°	8447.1	17.4
40°-50°	9005.5	18.5
50°-60°	8418.3	17.3
60°-70°	6664.1	13.7
70°-80°	2835.3	5.8
80°-90°	387.2	0.8
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°	12873.5	26.5
0°-40°	21320.6	43.8
0°-60°	38744.4	79.7
0°-90°	48631.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	48631.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16273	16273	16273	16273	16273	
5°	16328	16255	16244	16179	16273	###
15°	15838	15809	15817	15773	15889	4472
25°	14867	14849	14874	14867	14965	6854
35°	13449	13428	13493	13540	13605	8415
45°	11644	11579	11688	11735	11782	8972
55°	9313	9342	9444	9476	9545	8339
65°	6634	6692	6772	6822	6822	6526
75°	3440	3589	3730	609	450	3640
85°	620	185	203	210	207	808
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16273.3	16273.3	16273.3	16273.3	16273.3
2.5°	16364.0	16287.8	16273.3	16208.1	16295.1
5°	16327.7	16255.2	16244.3	16179.1	16273.3
7.5°	16251.6	16193.6	16186.3	16117.4	16211.7
10°	16150.1	16095.7	16092.1	16030.4	16124.7
12.5°	16012.3	15965.2	15979.7	15918.1	16012.3
15°	15838.3	15809.3	15816.6	15773.1	15889.1
17.5°	15628.0	15613.5	15628.0	15595.4	15700.5
20°	15406.9	15388.8	15410.5	15392.4	15490.3
22.5°	15149.5	15127.8	15171.3	15145.9	15236.5
25°	14866.8	14848.6	14874.0	14866.8	14964.6
27.5°	14544.1	14526.0	14580.4	14584.0	14660.1
30°	14221.5	14196.1	14239.6	14257.7	14333.9
32.5°	13837.2	13830.0	13895.2	13909.7	13989.5
35°	13449.3	13427.6	13492.8	13540.0	13605.2
37.5°	13025.2	13021.6	13090.4	13130.3	13162.9
40°	12579.3	12561.2	12659.0	12698.9	12727.9
42.5°	12126.1	12086.3	12180.5	12231.3	12263.9
45°	11644.0	11578.7	11687.5	11734.6	11781.8
47.5°	11114.7	11056.7	11161.9	11212.6	11245.2
50°	10552.8	10498.5	10614.5	10658.0	10683.3
52.5°	9987.3	9932.9	10056.2	10092.4	10154.1
55°	9313.0	9342.0	9443.5	9476.2	9545.0
57.5°	8689.5	8714.9	8812.8	8852.6	8932.4
60°	8026.1	8066.0	8156.6	8196.5	8258.1
62.5°	7384.4	7388.1	7496.8	7514.9	7562.1
65°	6634.0	6692.0	6771.8	6822.5	6822.5
67.5°	5796.6	5938.0	6075.8	6064.9	6093.9
70°	5097.0	5151.3	5314.5	5339.9	5379.7
72.5°	4219.7	4361.1	4542.3	3393.1	1152.8
75°	3440.3	3588.9	3730.3	609.0	449.5
77.5°	2671.7	2787.7	1239.8	348.0	340.8
80°	1856.1	2041.0	311.8	319.0	329.9
82.5°	1221.7	996.9	257.4	282.8	286.4
85°	619.9	184.9	203.0	210.3	206.6
87.5°	203.0	112.4	116.0	119.6	123.3
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)