

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: P731120

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731120
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-LD5-48SE-W-UNV-L735
Description: 48000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48068.0 lumens
Efficiency: N/A
Efficacy: 168.4 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

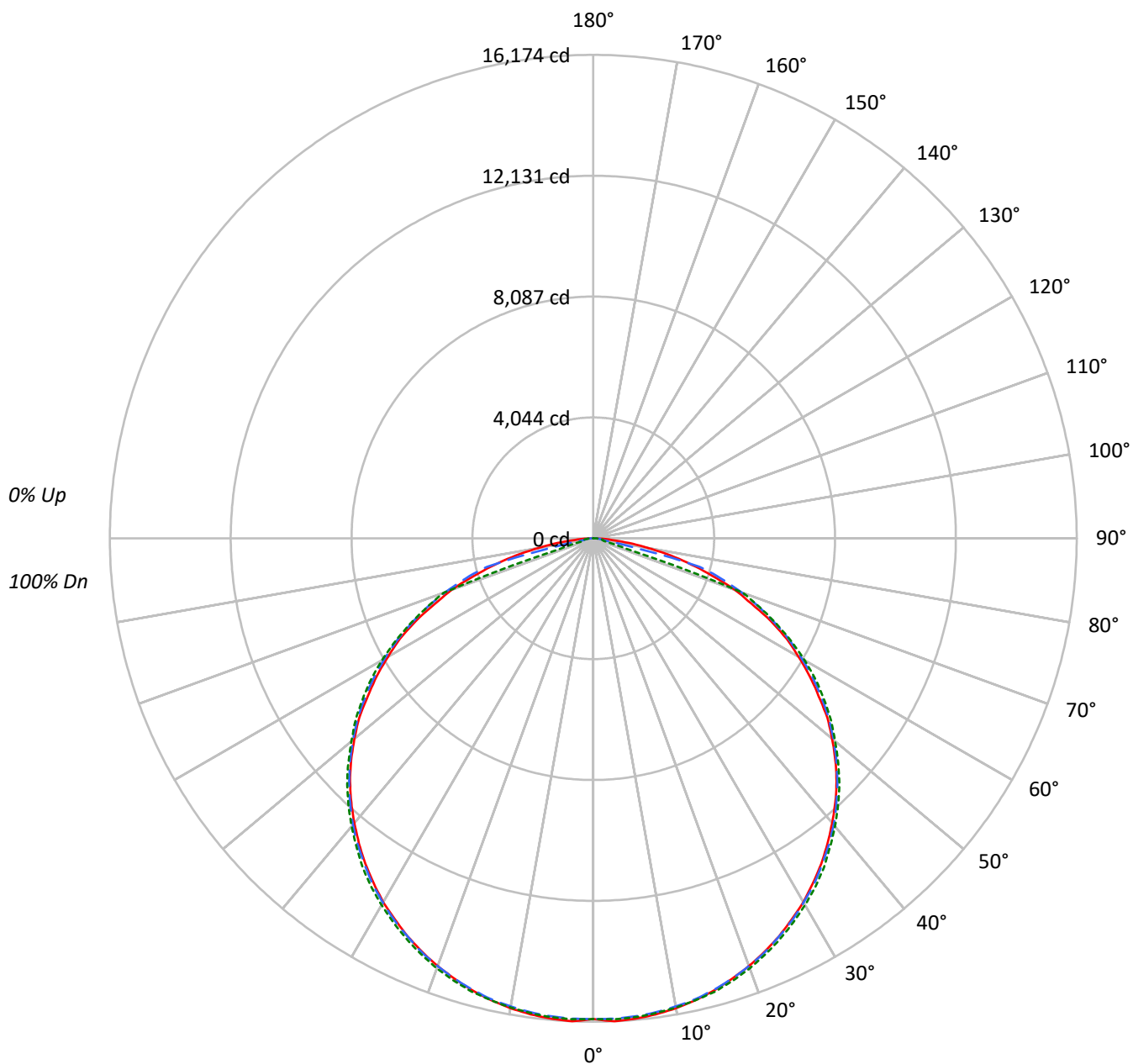
Input Watts (W): 285.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85		
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70		
3	90	80	72	65	88	78	71	64	75	69	63	72	67	62	70	65	61	59		
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50		
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43		
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37		
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33		
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29		
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26		
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25970	25970	25970
5°	26157	26023	26070
10°	26171	26077	26130
15°	26168	26132	26252
20°	26166	26172	26307
25°	26179	26191	26351
30°	26207	26241	26414
35°	26202	26287	26506
40°	26206	26373	26516
45°	26280	26378	26591
50°	26200	26353	26524
55°	25912	26275	26558
60°	25618	26034	26358
65°	25051	25572	25764
70°	23783	24798	25102
75°	21213	23001	2772
80°	17058	2866	3032
85°	11350	3718	3783



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1527.7	3.2
10°-20°	4414.3	9.2
20°-30°	6782.4	14.1
30°-40°	8349.3	17.4
40°-50°	8901.2	18.5
50°-60°	8320.9	17.3
60°-70°	6587.0	13.7
70°-80°	2802.5	5.8
80°-90°	382.7	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°	12724.4	26.5
0°-40°	21073.7	43.8
0°-60°	38295.8	79.7
0°-90°	48068.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	48068.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16085	16085	16085	16085	16085	
5°	16139	16067	16056	15992	16085	###
15°	15655	15626	15633	15590	15705	4420
25°	14695	14677	14702	14695	14791	6775
35°	13294	13272	13337	13383	13448	8318
45°	11509	11445	11552	11599	11645	8868
55°	9205	9234	9334	9366	9434	8243
65°	6557	6615	6693	6744	6744	6451
75°	3400	3547	3687	602	444	3598
85°	613	183	201	208	204	799
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16084.9	16084.9	16084.9	16084.9	16084.9
2.5°	16174.5	16099.3	16084.9	16020.4	16106.4
5°	16138.7	16067.0	16056.3	15991.8	16084.9
7.5°	16063.4	16006.1	15998.9	15930.9	16024.0
10°	15963.1	15909.4	15905.8	15844.9	15938.0
12.5°	15826.9	15780.4	15794.7	15733.8	15826.9
15°	15654.9	15626.3	15633.4	15590.4	15705.1
17.5°	15447.1	15432.8	15447.1	15414.9	15518.8
20°	15228.5	15210.6	15232.1	15214.2	15311.0
22.5°	14974.1	14952.6	14995.6	14970.6	15060.1
25°	14694.7	14676.7	14701.8	14694.7	14791.4
27.5°	14375.7	14357.8	14411.6	14415.2	14490.4
30°	14056.8	14031.8	14074.8	14092.7	14167.9
32.5°	13677.0	13669.9	13734.4	13748.7	13827.5
35°	13293.6	13272.1	13336.6	13383.2	13447.7
37.5°	12874.4	12870.8	12938.9	12978.3	13010.6
40°	12433.7	12415.7	12512.5	12551.9	12580.6
42.5°	11985.8	11946.3	12039.5	12089.7	12121.9
45°	11509.2	11444.7	11552.2	11598.8	11645.4
47.5°	10986.1	10928.7	11032.6	11082.8	11115.0
50°	10430.7	10376.9	10491.6	10534.6	10559.7
52.5°	9871.7	9817.9	9939.8	9975.6	10036.5
55°	9205.2	9233.9	9334.2	9366.5	9434.5
57.5°	8588.9	8614.0	8710.7	8750.1	8829.0
60°	7933.2	7972.6	8062.2	8101.6	8162.5
62.5°	7299.0	7302.5	7410.0	7427.9	7474.5
65°	6557.2	6614.6	6693.4	6743.6	6743.6
67.5°	5729.5	5869.3	6005.4	5994.7	6023.3
70°	5038.0	5091.7	5253.0	5278.0	5317.4
72.5°	4170.8	4310.6	4489.7	3353.9	1139.5
75°	3400.4	3547.4	3687.1	602.0	444.3
77.5°	2640.8	2755.5	1225.5	344.0	336.8
80°	1834.6	2017.3	308.2	315.3	326.1
82.5°	1207.5	985.4	254.4	279.5	283.1
85°	612.7	182.7	200.7	207.8	204.2
87.5°	200.7	111.1	114.7	118.2	121.8
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)