

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: P731122

Luminaire Tested: **HBLED-LD5-48SE-W-UNV-L750**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731122
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-L750
Description: 48000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50716.0 lumens
Efficiency: N/A
Efficacy: 177.6 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

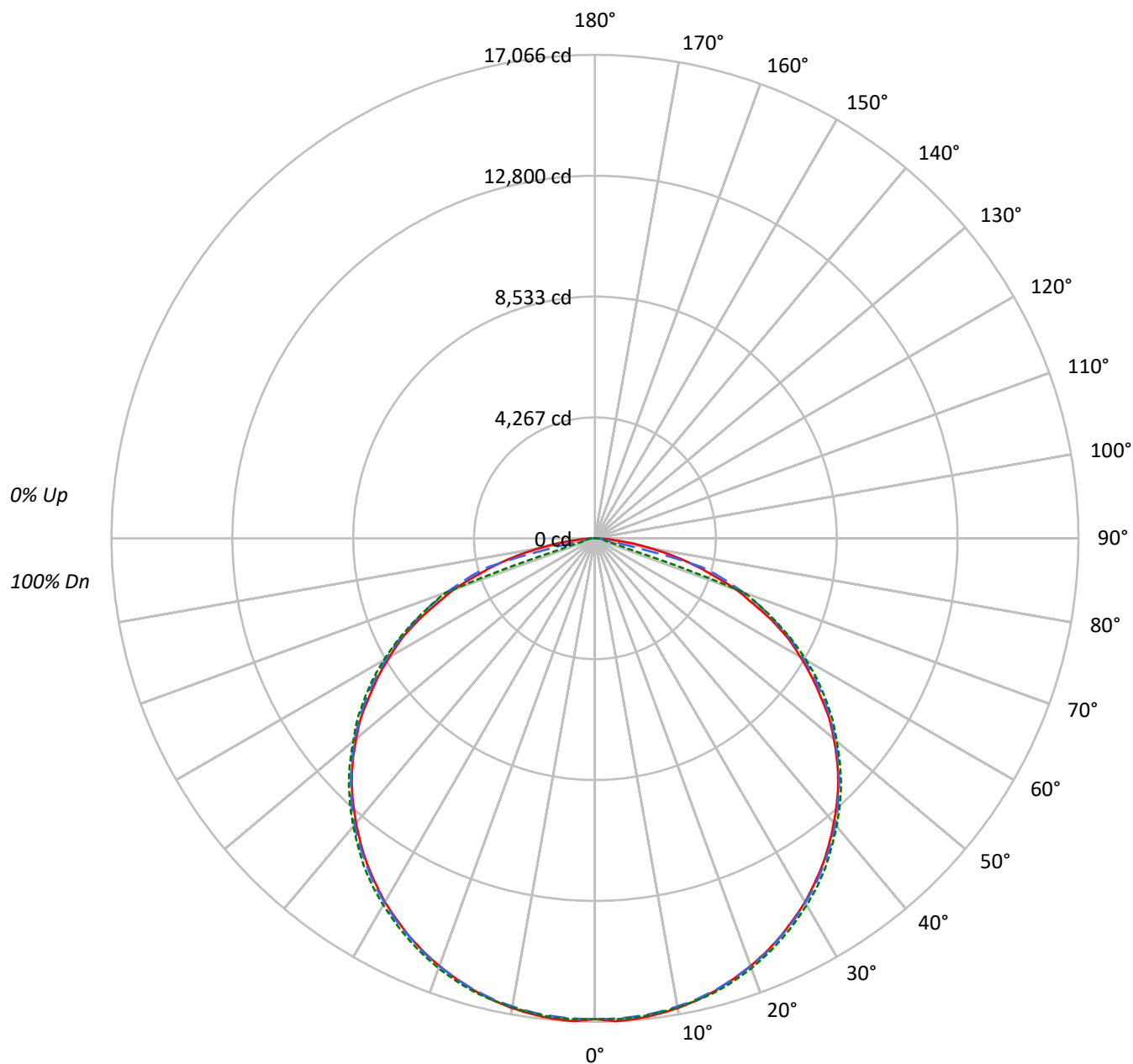
Input Watts (W): 285.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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	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°	27401	27401	27401
5°	27598	27457	27506
10°	27613	27514	27570
15°	27610	27572	27698
20°	27607	27614	27757
25°	27621	27634	27802
30°	27651	27686	27869
35°	27646	27735	27966
40°	27650	27825	27977
45°	27727	27831	28056
50°	27644	27805	27986
55°	27340	27723	28021
60°	27029	27468	27810
65°	26432	26980	27183
70°	25093	26164	26485
75°	22382	24268	2925
80°	17998	3023	3199
85°	11977	3922	3992



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1611.9	3.2
10°-20°	4657.5	9.2
20°-30°	7156.0	14.1
30°-40°	8809.3	17.4
40°-50°	9391.6	18.5
50°-60°	8779.2	17.3
60°-70°	6949.9	13.7
70°-80°	2956.9	5.8
80°-90°	403.8	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°	13425.4	26.5
0°-40°	22234.7	43.8
0°-60°	40405.5	79.7
0°-90°	50716.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	50716.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16971	16971	16971	16971	16971	
5°	17028	16952	16941	16873	16971	###
15°	16517	16487	16495	16449	16570	4664
25°	15504	15485	15512	15504	15606	7148
35°	14026	14003	14071	14120	14188	8776
45°	12143	12075	12189	12238	12287	9357
55°	9712	9743	9848	9882	9954	8697
65°	6918	6979	7062	7115	7115	6806
75°	3588	3743	3890	635	469	3796
85°	646	193	212	219	216	843
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16971.0	16971.0	16971.0	16971.0	16971.0
2.5°	17065.5	16986.1	16971.0	16903.0	16993.7
5°	17027.7	16952.1	16940.8	16872.7	16971.0
7.5°	16948.3	16887.9	16880.3	16808.5	16906.8
10°	16842.5	16785.8	16782.0	16717.7	16816.0
12.5°	16698.8	16649.7	16664.8	16600.5	16698.8
15°	16517.4	16487.1	16494.7	16449.3	16570.3
17.5°	16298.1	16283.0	16298.1	16264.1	16373.7
20°	16067.5	16048.6	16071.2	16052.3	16154.4
22.5°	15799.0	15776.4	15821.7	15795.3	15889.8
25°	15504.2	15485.3	15511.7	15504.2	15606.2
27.5°	15167.7	15148.8	15205.5	15209.3	15288.7
30°	14831.2	14804.8	14850.1	14869.0	14948.4
32.5°	14430.5	14422.9	14491.0	14506.1	14589.3
35°	14026.0	14003.3	14071.3	14120.5	14188.5
37.5°	13583.6	13579.8	13651.7	13693.3	13727.3
40°	13118.6	13099.7	13201.8	13243.4	13273.6
42.5°	12646.0	12604.5	12702.7	12755.7	12789.7
45°	12143.2	12075.2	12188.6	12237.7	12286.9
47.5°	11591.3	11530.8	11640.4	11693.3	11727.4
50°	11005.3	10948.6	11069.5	11114.9	11141.4
52.5°	10415.5	10358.8	10487.3	10525.1	10589.4
55°	9712.3	9742.6	9848.4	9882.4	9954.3
57.5°	9062.1	9088.5	9190.6	9232.2	9315.3
60°	8370.2	8411.8	8506.3	8547.9	8612.2
62.5°	7701.0	7704.8	7818.2	7837.1	7886.3
65°	6918.5	6979.0	7062.1	7115.1	7115.1
67.5°	6045.1	6192.6	6336.3	6324.9	6355.2
70°	5315.5	5372.2	5542.3	5568.8	5610.4
72.5°	4400.6	4548.0	4737.1	3538.6	1202.2
75°	3587.8	3742.8	3890.2	635.1	468.8
77.5°	2786.3	2907.3	1293.0	362.9	355.4
80°	1935.7	2128.5	325.1	332.7	344.0
82.5°	1274.1	1039.7	268.4	294.9	298.7
85°	646.5	192.8	211.7	219.3	215.5
87.5°	211.7	117.2	121.0	124.8	128.5
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)