

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: P731104

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731104
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23765)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-48SE-W-AI-UNV-L750
Description: 48000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND PRISMATIC ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44731.0 lumens
Efficiency: N/A
Efficacy: 156.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

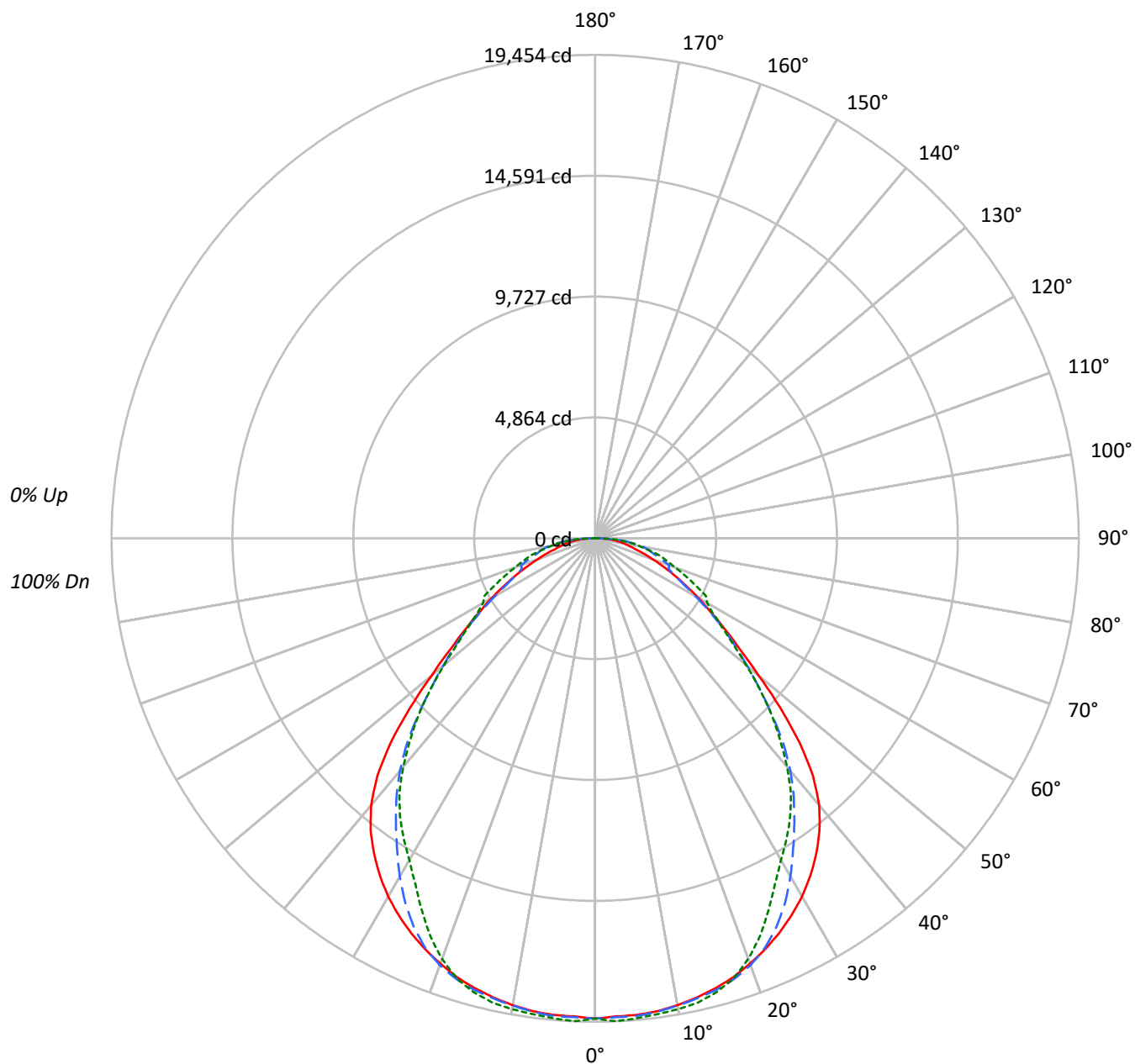
Input Watts (W): 285.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	105	101	97	107	103	99	96	98	95	93		95	92	90		91
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81
3	92	82	75	69	90	81	74	68	78	72	67		75	70	66		73
4	85	74	66	59	83	73	65	59	70	64	58		68	62	57		66
5	79	67	58	52	77	66	58	52	64	57	51		62	55	51		60
6	73	61	52	46	71	60	52	46	58	51	45		56	50	45		55
7	68	55	47	41	66	54	47	41	53	46	41		52	45	40		50
8	64	51	43	37	62	50	42	37	49	42	37		48	41	36		46
9	60	47	39	34	58	46	39	33	45	38	33		44	38	33		43
10	56	43	36	31	55	43	35	31	42	35	30		41	35	30		40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	31202	31202	31202
5°	31201	31268	31421
10°	31278	31317	31547
15°	31326	31443	31597
20°	31295	31411	30945
25°	31215	30748	29410
30°	31031	29297	27869
35°	30564	27536	26962
40°	29542	25746	25322
45°	26553	22990	22905
50°	21536	20025	19887
55°	17883	17550	17544
60°	15483	15031	16804
65°	13419	13335	16938
70°	11570	14958	16146
75°	10376	15331	16833
80°	10785	18047	16887
85°	12242	20798	19296



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1840.0	4.1
10°-20°	5314.1	11.9
20°-30°	7892.5	17.6
30°-40°	8960.2	20.0
40°-50°	8010.1	17.9
50°-60°	5538.2	12.4
60°-70°	3654.4	8.2
70°-80°	2465.5	5.5
80°-90°	1056.0	2.4
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°	15046.6	33.6
0°-40°	24006.9	53.7
0°-60°	37555.1	84.0
0°-90°	44731.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	44731.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19325	19325	19325	19325	19325	
5°	19251	19369	19292	19371	19386	###
15°	18741	18831	18811	18916	18903	5290
25°	17522	17688	17260	16745	16509	8074
35°	15507	15180	13970	13767	13679	9670
45°	11629	10644	10068	10145	10031	8843
55°	6353	5799	6235	6147	6232	5770
65°	3512	3118	3490	4081	4434	3505
75°	1663	2092	2458	2626	2698	1816
85°	661	919	1123	1129	1042	689
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	19325.2	19325.2	19325.2	19325.2	19325.2
2.5°	19259.6	19379.9	19290.2	19373.4	19454.2
5°	19250.7	19368.9	19292.3	19371.0	19386.5
7.5°	19196.0	19305.4	19215.7	19292.3	19309.8
10°	19077.8	19207.0	19101.9	19220.1	19242.0
12.5°	18924.7	19056.1	18964.0	19125.9	19134.8
15°	18740.9	18830.6	18811.0	18915.9	18902.8
17.5°	18508.8	18611.9	18596.5	18622.6	18561.4
20°	18213.5	18329.4	18281.3	18160.9	18010.0
22.5°	17896.2	18036.2	17845.9	17541.7	17329.3
25°	17521.9	17688.2	17259.5	16745.2	16508.7
27.5°	17108.3	17257.1	16543.8	15913.6	15668.5
30°	16644.5	16707.8	15714.3	15114.8	14948.4
32.5°	16108.3	16016.4	14828.1	14432.0	14335.7
35°	15506.6	15180.4	13970.3	13766.8	13679.2
37.5°	14828.1	14230.8	13123.5	13029.4	12937.3
40°	14016.3	13134.3	12215.3	12154.1	12013.9
42.5°	12968.1	11941.7	11206.4	11134.2	11009.4
45°	11628.8	10644.0	10068.5	10145.1	10031.3
47.5°	10088.1	9342.0	8976.6	9186.7	8976.6
50°	8573.8	8072.8	7972.1	8162.5	7917.4
52.5°	7333.1	6882.3	7090.3	7123.0	6976.5
55°	6352.7	5799.1	6234.6	6147.0	6232.3
57.5°	5499.3	4879.9	5416.1	5315.4	5608.7
60°	4794.6	4098.8	4654.7	4632.7	5203.8
62.5°	4103.2	3547.4	3993.7	4315.4	5017.8
65°	3512.3	3118.4	3490.4	4081.3	4433.6
67.5°	2945.5	2796.6	3192.7	3521.0	3906.3
70°	2450.8	2527.5	3168.6	3107.4	3420.3
72.5°	2035.1	2295.7	2796.6	2807.6	3028.7
75°	1663.2	2092.1	2457.6	2626.1	2698.3
77.5°	1383.0	1897.3	2219.0	2278.1	2208.0
80°	1159.9	1671.8	1941.0	1914.8	1816.2
82.5°	936.5	1267.1	1529.7	1553.8	1437.7
85°	660.8	919.2	1122.7	1129.3	1041.6
87.5°	354.5	566.8	680.6	700.3	647.7
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)