

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: P731060

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731060
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23767)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-48HE-N-UNV-L735
Description: 48000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46831.0 lumens
Efficiency: N/A
Efficacy: 178.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

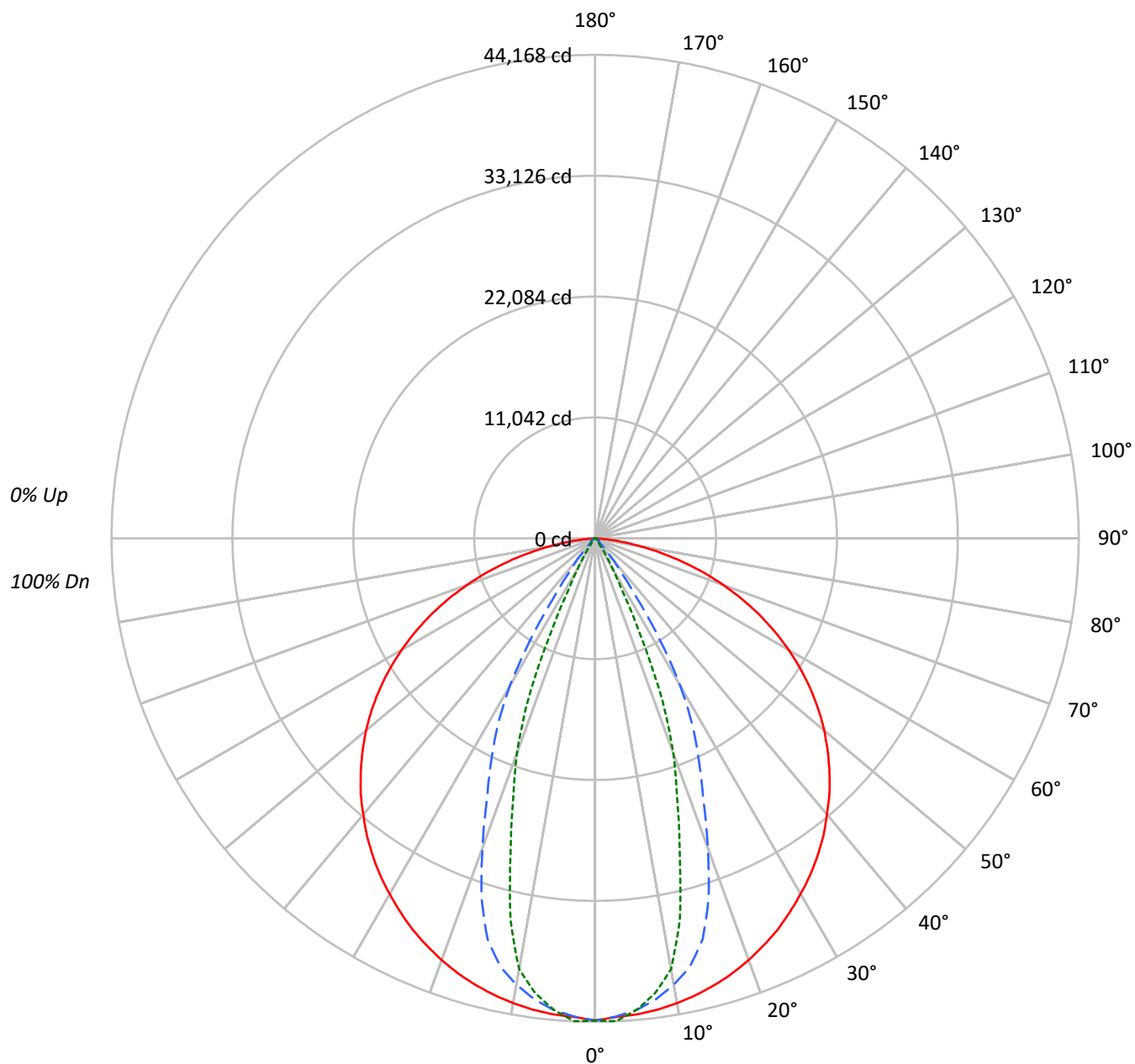
Input Watts (W): 263
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	71140	71140	71140
5°	70759	70134	70104
10°	70715	67887	65505
15°	70615	63422	49853
20°	70451	51702	35885
25°	70272	39977	17677
30°	69961	29054	5733
35°	69796	12890	1475
40°	69430	5235	994
45°	69120	1469	1058
50°	68581	1042	1174
55°	67593	1239	502
60°	65925	1381	305
65°	63213	881	361
70°	58726	782	446
75°	51374	589	614
80°	38412	722	878
85°	19027	930	1163



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4088.9	8.7
10°-20°	10224.3	21.8
20°-30°	11074.5	23.6
30°-40°	8201.1	17.5
40°-50°	5906.9	12.6
50°-60°	3657.5	7.8
60°-70°	2249.3	4.8
70°-80°	1185.8	2.5
80°-90°	242.7	0.5
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°	25387.7	54.2
0°-40°	33588.8	71.7
0°-60°	43153.2	92.1
0°-90°	46831.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	46831.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	44061	44061	44061	44061	44061	
5°	43658	43820	43273	43304	43254	###
15°	42246	41265	37942	32266	29824	11926
25°	39445	36132	22440	14117	9923	18175
35°	35410	24964	6540	1538	748	22153
45°	30271	14064	644	465	463	23345
55°	24012	2897	440	398	178	21436
65°	16546	306	230	147	94	16325
75°	8235	71	94	124	98	8698
85°	1027	27	50	76	63	###
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	44060.7	44060.7	44060.7	44060.7	44060.7
2.5°	43777.8	44056.7	43727.5	43972.8	44167.7
5°	43658.3	43819.7	43272.6	43304.0	43253.8
7.5°	43448.6	43411.0	42490.8	42088.4	41912.4
10°	43132.3	42882.7	41407.2	40566.7	39954.6
12.5°	42723.5	42166.0	40055.3	37382.8	35722.8
15°	42245.6	41264.7	37942.4	32266.5	29824.5
17.5°	41675.4	40285.8	34488.1	27043.0	24863.3
20°	41002.6	39193.7	30090.6	23008.2	20885.0
22.5°	40252.2	37864.8	25819.0	19122.1	16093.3
25°	39445.3	36131.5	22440.1	14116.8	9922.6
27.5°	38512.6	33903.4	19271.0	8315.0	5064.1
30°	37525.4	31220.4	15583.9	4472.9	3074.9
32.5°	36529.7	28179.0	11027.2	2794.0	1743.9
35°	35410.5	24963.7	6539.6	1538.5	748.4
37.5°	34242.8	22016.8	3865.0	700.2	480.0
40°	32941.3	19323.4	2483.7	465.2	471.5
42.5°	31683.8	16812.3	1398.1	459.0	467.5
45°	30270.9	14064.3	643.5	465.2	463.2
47.5°	28809.9	11215.8	417.0	469.5	469.5
50°	27303.0	8019.5	415.0	480.0	467.5
52.5°	25712.1	5003.3	431.8	478.0	383.6
55°	24012.2	2896.7	440.1	398.2	178.2
57.5°	22251.5	1708.2	444.4	228.5	100.7
60°	20415.3	945.2	427.6	169.7	94.4
62.5°	18522.6	450.6	337.4	159.4	92.2
65°	16546.0	306.0	230.5	146.6	94.4
67.5°	14494.1	236.8	182.3	138.3	96.4
70°	12439.9	176.0	165.7	138.3	94.4
72.5°	10352.4	119.5	138.3	140.4	94.4
75°	8235.2	71.3	94.4	123.8	98.4
77.5°	6137.1	44.0	73.3	127.8	119.5
80°	4131.2	37.7	77.6	119.5	94.4
82.5°	2425.2	33.6	75.5	92.2	75.5
85°	1027.1	27.3	50.2	75.5	62.8
87.5°	192.8	23.1	39.9	60.8	54.5
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)