

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: P731117

Luminaire Tested: **HBLED-LD5-48SE-W-FLI-UNV-L835**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731117
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26703)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-48SE-W-FLI-UNV-L835
Description: 48000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40803.0 lumens
Efficiency: N/A
Efficacy: 142.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

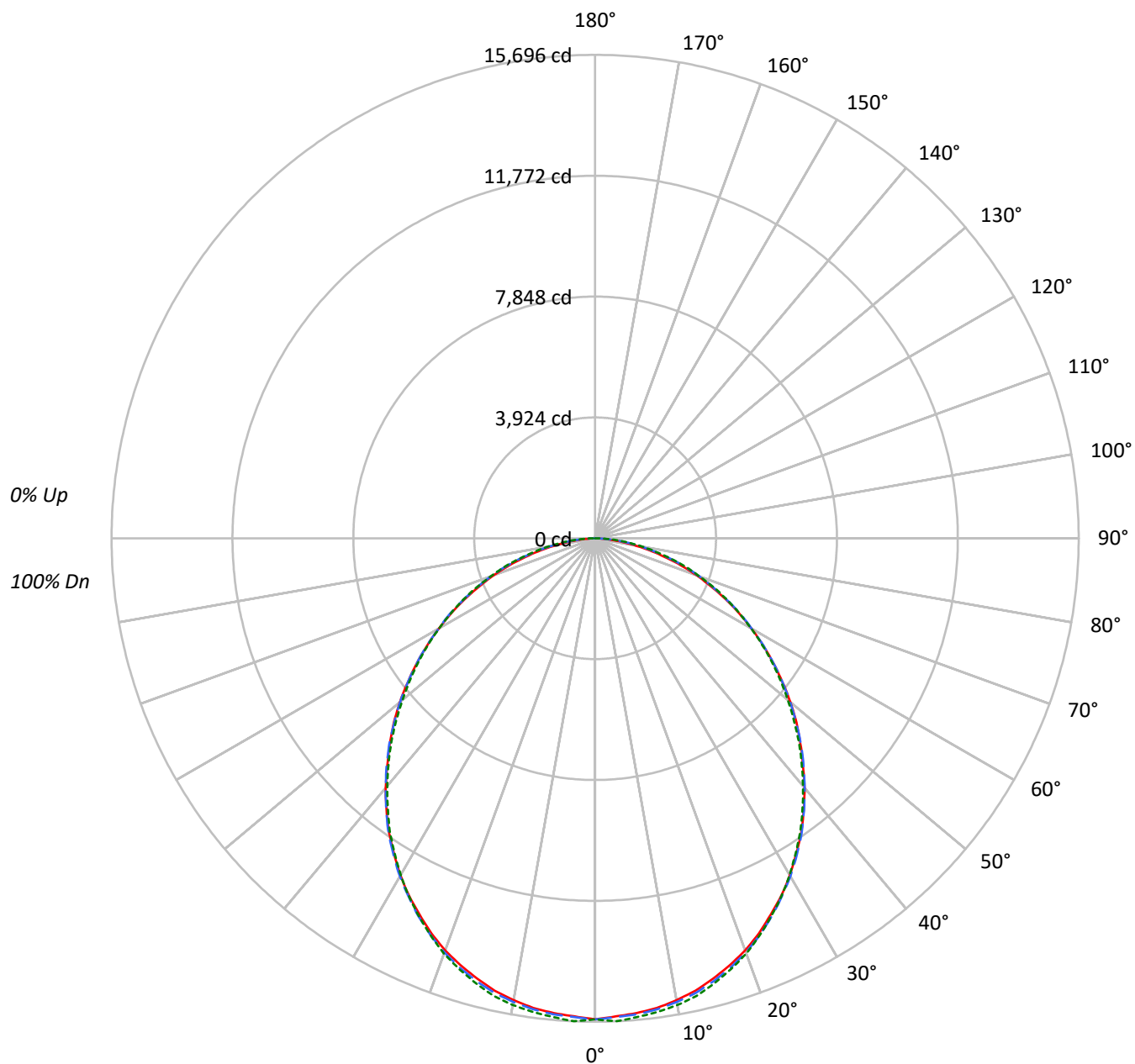
Input Watts (W): 285.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84		
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71		
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60		
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51		
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45		
6	71	58	49	42	69	57	48	42	55	47	42	53	47	42	52	46	41	39		
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35		
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31		
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25221	25221	25221
5°	25077	25148	25291
10°	24963	25064	25227
15°	24744	24878	25000
20°	24464	24581	24653
25°	24011	24147	24112
30°	23568	23631	23535
35°	22984	23043	22896
40°	22294	22294	22122
45°	21514	21573	21353
50°	20775	20740	20480
55°	19876	19878	19699
60°	18913	18935	18862
65°	17825	18004	18049
70°	16464	16915	16933
75°	14550	15492	15734
80°	11934	13568	14335
85°	8281	11391	12881



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1477.3	3.6
10°-20°	4202.6	10.3
20°-30°	6245.4	15.3
30°-40°	7302.5	17.9
40°-50°	7280.8	17.8
50°-60°	6317.0	15.5
60°-70°	4665.9	11.4
70°-80°	2612.3	6.4
80°-90°	697.0	1.7
90°-100°	2.1	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°	11925.3	29.2
0°-40°	19227.8	47.1
0°-60°	32825.6	80.4
0°-90°	40800.9	100.0
90°-120°	2.1	0.0
90°-150°	2.1	0.0
90°-180°	2.0	0.0
0°-180°	40803.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15620	15620	15620	15620	15620	
5°	15472	15570	15516	15585	15605	###
15°	14803	14906	14884	14955	14956	4175
25°	13478	13586	13554	13584	13534	6214
35°	11661	11763	11691	11689	11616	7284
45°	9422	9522	9448	9409	9351	7274
55°	7061	7109	7062	7050	6998	6314
65°	4666	4712	4712	4736	4724	4614
75°	2332	2402	2483	2501	2522	2484
85°	447	540	615	670	695	543
90°	0	10	12	27	25	18
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15620.5	15620.5	15620.5	15620.5	15620.5
2.5°	15535.1	15627.6	15562.9	15624.6	15696.2
5°	15472.5	15570.0	15516.2	15584.7	15604.6
7.5°	15381.2	15475.6	15423.9	15492.5	15513.3
10°	15226.2	15328.6	15287.8	15365.3	15387.2
12.5°	15045.4	15141.7	15114.9	15205.3	15220.2
15°	14803.1	14906.4	14883.5	14955.1	14956.0
17.5°	14534.8	14632.1	14615.2	14671.0	14668.9
20°	14237.9	14342.1	14306.4	14366.9	14348.0
22.5°	13886.2	13997.4	13952.6	14003.4	13955.7
25°	13477.9	13586.2	13554.4	13584.1	13534.5
27.5°	13082.5	13181.9	13116.2	13152.0	13099.4
30°	12641.4	12725.9	12675.3	12687.2	12623.6
32.5°	12145.8	12246.1	12184.4	12182.5	12114.9
35°	11661.0	11763.3	11690.9	11688.8	11616.4
37.5°	11124.6	11219.9	11134.6	11139.5	11055.1
40°	10577.2	10659.8	10577.2	10573.2	10495.9
42.5°	9983.2	10092.5	10017.1	10025.9	9922.7
45°	9422.1	9522.4	9447.9	9409.0	9351.4
47.5°	8862.8	8906.5	8844.8	8834.9	8753.5
50°	8270.7	8303.4	8256.7	8244.9	8153.5
52.5°	7658.8	7715.5	7655.8	7639.9	7579.4
55°	7060.8	7109.4	7061.7	7049.8	6998.1
57.5°	6458.8	6522.4	6473.8	6461.7	6420.2
60°	5856.9	5875.7	5863.8	5881.6	5841.0
62.5°	5258.9	5302.5	5316.5	5311.5	5279.7
65°	4665.8	4711.5	4712.5	4736.4	4724.3
67.5°	4058.9	4118.4	4135.4	4160.1	4171.1
70°	3487.6	3533.3	3583.1	3597.9	3586.9
72.5°	2912.5	2986.0	3041.7	3054.5	3101.2
75°	2332.4	2401.9	2483.4	2501.3	2522.1
77.5°	1794.0	1886.3	1959.8	1983.8	2009.6
80°	1283.5	1385.7	1459.2	1491.9	1541.7
82.5°	842.4	946.7	1021.2	1053.9	1114.6
85°	447.0	540.5	614.9	669.5	695.3
87.5°	132.1	211.5	254.2	270.1	293.1
90°	0.0	10.0	11.9	26.8	24.9
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - 90°-270°







107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



(END OF REPORT)