

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: P731107

Luminaire Tested: **HBLED-LD5-48SE-W-AI-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731107
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-L850
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: 42512.0 lumens
Efficiency: N/A
Efficacy: 148.9 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

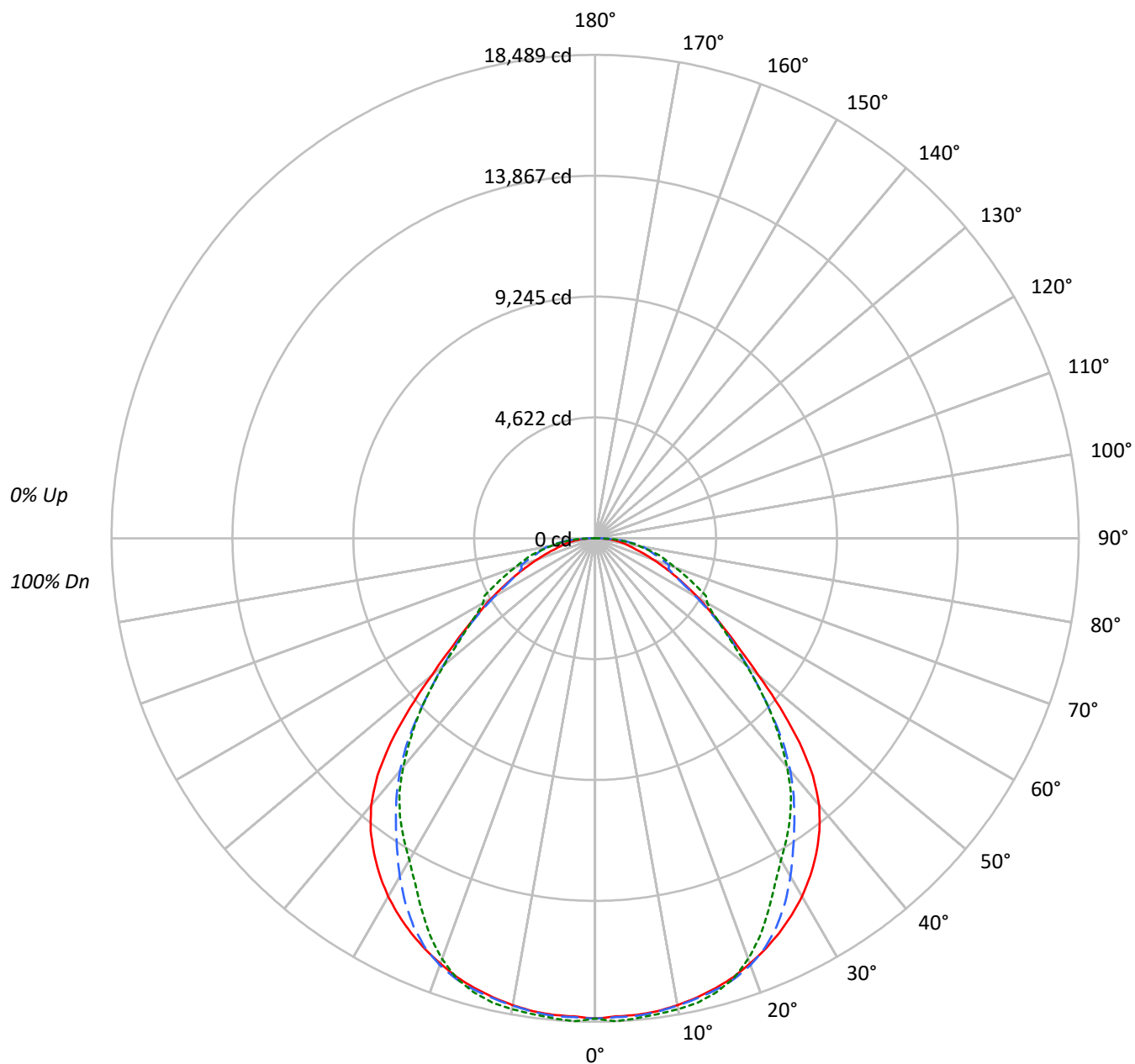
Input Watts (W): 285.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63		
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55		
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48		
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43		
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38		
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34		
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31		
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	29654	29654	29654
5°	29653	29717	29862
10°	29726	29764	29982
15°	29772	29884	30029
20°	29742	29853	29410
25°	29667	29222	27951
30°	29492	27844	26487
35°	29048	26170	25625
40°	28077	24469	24065
45°	25236	21850	21769
50°	20468	19031	18901
55°	16995	16680	16673
60°	14715	14285	15970
65°	12753	12673	16098
70°	10996	14216	15345
75°	9861	14571	15997
80°	10249	17152	16049
85°	11634	19767	18340



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1748.7	4.1
10°-20°	5050.5	11.9
20°-30°	7501.0	17.6
30°-40°	8515.7	20.0
40°-50°	7612.7	17.9
50°-60°	5263.5	12.4
60°-70°	3473.1	8.2
70°-80°	2343.2	5.5
80°-90°	1003.6	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°	14300.2	33.6
0°-40°	22816.0	53.7
0°-60°	35692.1	84.0
0°-90°	42512.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	42512.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18366	18366	18366	18366	18366	
5°	18296	18408	18335	18410	18425	###
15°	17811	17896	17878	17978	17965	5028
25°	16653	16811	16403	15914	15690	7673
35°	14737	14427	13277	13084	13001	9190
45°	11052	10116	9569	9642	9534	8405
55°	6038	5511	5925	5842	5923	5484
65°	3338	2964	3317	3879	4214	3331
75°	1581	1988	2336	2496	2564	1726
85°	628	874	1067	1073	990	655
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	18366.5	18366.5	18366.5	18366.5	18366.5
2.5°	18304.1	18418.5	18333.2	18412.3	18489.1
5°	18295.7	18408.1	18335.2	18410.1	18424.7
7.5°	18243.8	18347.7	18262.4	18335.2	18351.9
10°	18131.4	18254.2	18154.3	18266.6	18287.5
12.5°	17985.9	18110.7	18023.3	18177.1	18185.6
15°	17811.2	17896.4	17877.8	17977.5	17965.1
17.5°	17590.7	17688.6	17673.9	17698.8	17640.6
20°	17310.0	17420.1	17374.4	17260.0	17116.5
22.5°	17008.4	17141.4	16960.7	16671.5	16469.7
25°	16652.7	16810.8	16403.3	15914.5	15689.8
27.5°	16259.6	16401.1	15723.1	15124.2	14891.2
30°	15818.8	15879.0	14934.8	14364.9	14206.8
32.5°	15309.2	15221.9	14092.5	13716.1	13624.6
35°	14737.3	14427.3	13277.3	13083.9	13000.6
37.5°	14092.5	13524.9	12472.5	12383.0	12295.5
40°	13321.0	12482.7	11609.3	11551.1	11417.9
42.5°	12324.8	11349.3	10650.5	10581.8	10463.3
45°	11052.0	10116.0	9569.0	9641.8	9533.7
47.5°	9587.7	8878.6	8531.3	8730.9	8531.3
50°	8148.5	7672.3	7576.6	7757.6	7524.7
52.5°	6969.3	6540.9	6738.6	6769.7	6630.4
55°	6037.5	5511.4	5925.4	5842.1	5923.1
57.5°	5226.5	4637.8	5147.5	5051.8	5330.5
60°	4556.8	3895.5	4423.8	4402.9	4945.6
62.5°	3899.7	3371.4	3795.5	4101.3	4768.9
65°	3338.1	2963.7	3317.2	3878.8	4213.7
67.5°	2799.4	2657.9	3034.3	3346.3	3712.5
70°	2329.3	2402.1	3011.4	2953.2	3250.6
72.5°	1934.2	2181.8	2657.9	2668.3	2878.4
75°	1580.7	1988.4	2335.7	2495.8	2564.4
77.5°	1314.4	1803.2	2108.9	2165.1	2098.5
80°	1102.3	1588.9	1844.7	1819.8	1726.1
82.5°	890.0	1204.3	1453.9	1476.7	1366.4
85°	628.0	873.6	1067.0	1073.2	990.0
87.5°	336.9	538.7	646.9	665.5	615.6
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)