

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: P731109

Luminaire Tested: **HBLED-LD5-48SE-W-CLI-UNV-L740**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731109
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23766)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-48SE-W-CLI-UNV-L740
Description: 48000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS
INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46008.0 lumens
Efficiency: N/A
Efficacy: 161.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

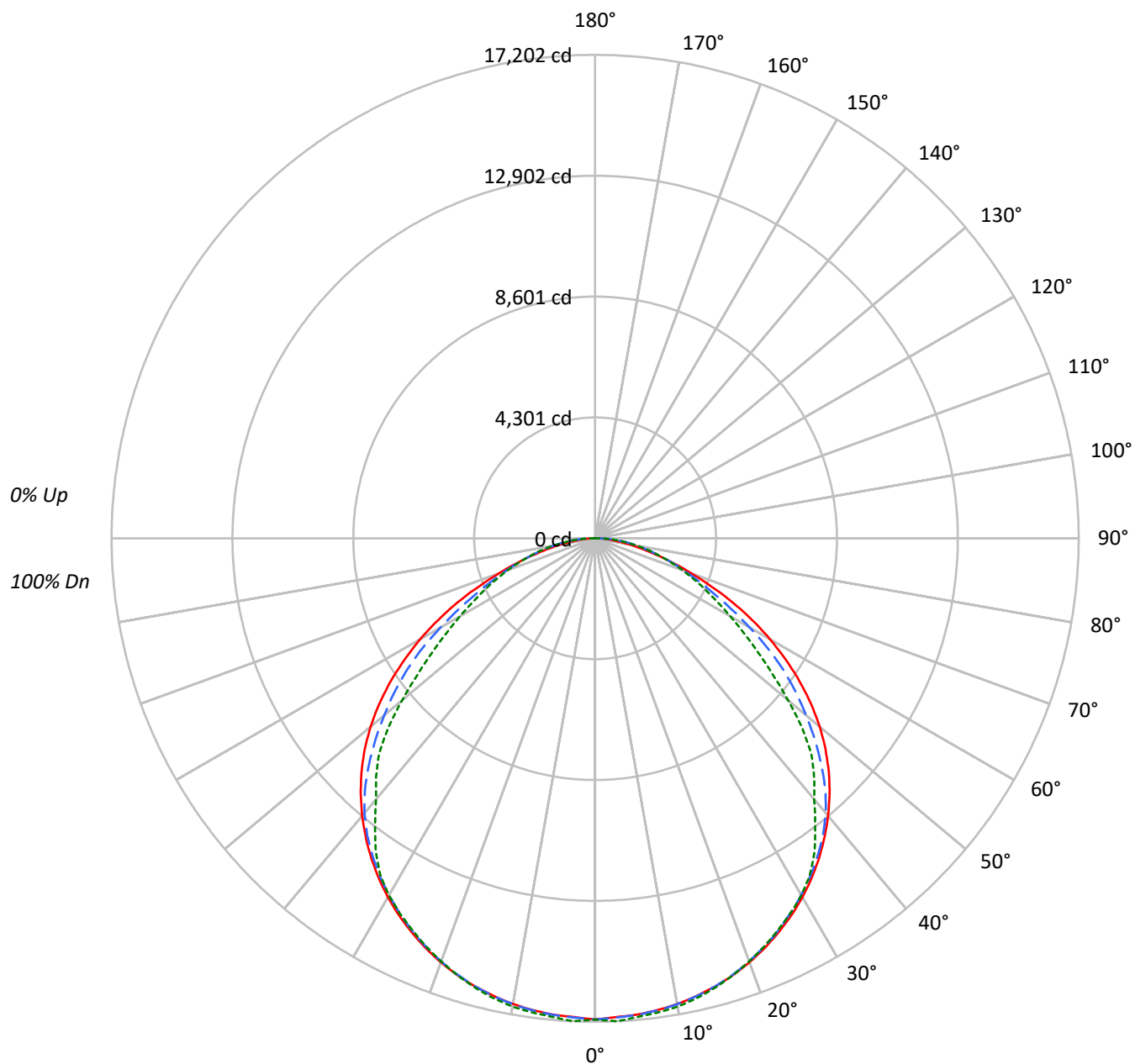
Input Watts (W): 285.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	99	95	98	95	92	94	92	90	91	89	87	85		
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71		
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61		
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52		
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45		
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40		
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35		
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31		
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28		
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	27649	27649	27649
5°	27575	27594	27718
10°	27590	27604	27749
15°	27594	27590	27655
20°	27587	27523	27530
25°	27544	27442	27409
30°	27499	27335	27350
35°	27371	27201	26816
40°	27176	26899	25542
45°	26831	25972	24836
50°	26186	24590	22493
55°	24993	22997	19890
60°	23195	20519	17937
65°	20617	17765	16494
70°	17109	15877	15547
75°	13838	14530	14711
80°	10991	13897	13839
85°	8605	14930	14242



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1624.0	3.5
10°-20°	4671.3	10.2
20°-30°	7122.9	15.5
30°-40°	8617.6	18.7
40°-50°	8728.9	19.0
50°-60°	7214.6	15.7
60°-70°	4765.1	10.4
70°-80°	2484.7	5.4
80°-90°	778.9	1.7
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°	13418.1	29.2
0°-40°	22035.7	47.9
0°-60°	37979.2	82.5
0°-90°	46008.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	46008.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17124	17124	17124	17124	17124	
5°	17013	17116	17026	17100	17102	###
15°	16508	16592	16506	16557	16545	4662
25°	15461	15523	15404	15443	15385	7129
35°	13887	13905	13800	13782	13605	8686
45°	11751	11720	11374	11021	10877	9048
55°	8879	8747	8170	7376	7066	7914
65°	5396	5240	4650	4348	4317	5330
75°	2218	2257	2329	2360	2358	2416
85°	464	598	806	800	769	564
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	17124.3	17124.3	17124.3	17124.3	17124.3
2.5°	17052.6	17153.2	17068.9	17142.9	17202.5
5°	17013.4	17116.3	17025.7	17099.8	17101.9
7.5°	16937.5	17040.2	16947.6	17021.6	17019.6
10°	16828.3	16925.1	16836.6	16925.1	16925.1
12.5°	16680.5	16774.9	16688.7	16770.8	16758.4
15°	16507.8	16592.0	16505.7	16557.1	16544.7
17.5°	16304.2	16380.3	16283.6	16326.7	16302.2
20°	16055.5	16125.4	16018.5	16074.0	16022.5
22.5°	15775.8	15841.6	15732.7	15773.9	15716.1
25°	15461.4	15523.1	15403.9	15442.8	15385.3
27.5°	15122.1	15177.6	15043.9	15091.4	15046.0
30°	14750.0	14776.8	14661.7	14723.4	14670.0
32.5°	14334.8	14351.3	14250.4	14305.9	14215.6
35°	13886.6	13905.1	13800.3	13781.8	13605.0
37.5°	13407.6	13415.9	13317.3	13150.6	12858.7
40°	12893.8	12889.7	12762.2	12377.7	12118.6
42.5°	12344.7	12342.8	12118.6	11680.7	11532.8
45°	11750.7	11719.9	11374.4	11020.9	10876.9
47.5°	11113.5	11080.5	10597.4	10315.9	9988.9
50°	10424.8	10367.2	9789.5	9405.0	8954.9
52.5°	9682.6	9594.1	9006.3	8385.4	7959.9
55°	8878.8	8747.2	8169.6	7376.1	7065.7
57.5°	8042.2	7846.8	7285.6	6512.7	6259.8
60°	7182.9	6964.8	6354.3	5719.2	5554.6
62.5°	6298.8	6083.0	5460.1	4981.2	4890.6
65°	5396.4	5240.0	4650.1	4347.9	4317.2
67.5°	4471.3	4415.8	3965.5	3811.4	3799.0
70°	3624.3	3614.0	3363.2	3285.0	3293.3
72.5°	2896.6	2884.2	2847.3	2808.1	2810.2
75°	2218.2	2257.2	2329.2	2359.9	2358.1
77.5°	1654.9	1735.1	1887.1	1948.8	1938.5
80°	1182.1	1301.3	1494.6	1552.2	1488.4
82.5°	787.3	912.7	1140.9	1149.1	1097.8
85°	464.5	598.2	805.9	799.7	768.8
87.5°	230.2	359.7	483.1	462.5	442.0
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)