

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: P731103

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731103
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-L740
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: 43680.0 lumens
Efficiency: N/A
Efficacy: 153.0 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

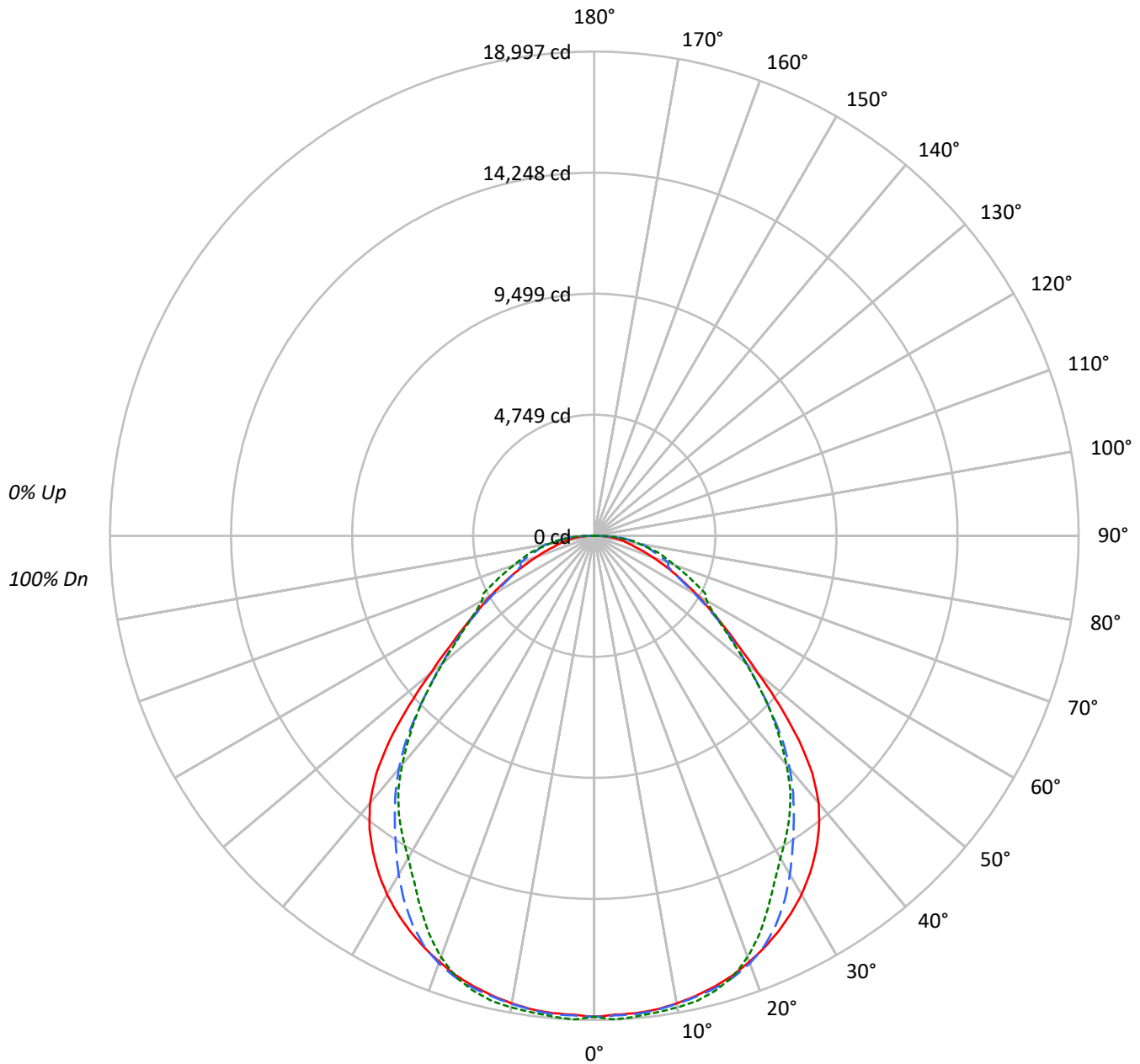
Input Watts (W): 285.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	30469	30469	30469
5°	30468	30533	30682
10°	30543	30582	30806
15°	30590	30705	30854
20°	30559	30673	30218
25°	30482	30025	28719
30°	30302	28609	27215
35°	29846	26889	26329
40°	28848	25141	24727
45°	25929	22450	22367
50°	21030	19554	19420
55°	17462	17138	17131
60°	15119	14678	16409
65°	13103	13021	16540
70°	11298	14607	15767
75°	10132	14971	16437
80°	10531	17624	16490
85°	11954	20309	18844



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1796.8	4.1
10°-20°	5189.2	11.9
20°-30°	7707.1	17.6
30°-40°	8749.7	20.0
40°-50°	7821.9	17.9
50°-60°	5408.1	12.4
60°-70°	3568.5	8.2
70°-80°	2407.5	5.5
80°-90°	1031.1	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°	14693.1	33.6
0°-40°	23442.8	53.7
0°-60°	36672.8	84.0
0°-90°	43680.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	43680.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18871	18871	18871	18871	18871	
5°	18798	18914	18839	18916	18931	###
15°	18300	18388	18369	18471	18459	5166
25°	17110	17273	16854	16352	16121	7884
35°	15142	14824	13642	13443	13358	9442
45°	11356	10394	9832	9907	9796	8636
55°	6203	5663	6088	6003	6086	5635
65°	3430	3045	3408	3985	4329	3423
75°	1624	2043	2400	2564	2635	1774
85°	645	898	1096	1103	1017	673
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	18871.2	18871.2	18871.2	18871.2	18871.2
2.5°	18807.0	18924.6	18836.9	18918.2	18997.1
5°	18798.4	18913.8	18839.0	18915.9	18930.9
7.5°	18745.0	18851.8	18764.2	18839.0	18856.1
10°	18629.5	18755.7	18653.1	18768.5	18789.9
12.5°	18480.1	18608.3	18518.4	18676.6	18685.2
15°	18300.5	18388.1	18369.0	18471.4	18458.6
17.5°	18074.0	18174.6	18159.5	18185.1	18125.3
20°	17785.6	17898.7	17851.7	17734.2	17586.8
22.5°	17475.7	17612.4	17426.6	17129.6	16922.2
25°	17110.2	17272.6	16853.9	16351.7	16120.9
27.5°	16706.3	16851.7	16155.1	15539.7	15300.4
30°	16253.4	16315.3	15345.1	14759.6	14597.2
32.5°	15729.8	15640.1	14479.7	14092.9	13998.9
35°	15142.2	14823.7	13642.1	13443.3	13357.8
37.5°	14479.7	13896.5	12815.2	12723.2	12633.3
40°	13687.0	12825.7	11928.3	11868.5	11731.6
42.5°	12663.4	11661.1	10943.1	10872.6	10750.7
45°	11355.6	10393.9	9831.9	9906.7	9795.6
47.5°	9851.1	9122.5	8765.7	8970.8	8765.7
50°	8372.3	7883.1	7784.8	7970.8	7731.4
52.5°	7160.8	6720.6	6923.7	6955.6	6812.6
55°	6203.4	5662.9	6088.1	6002.6	6085.9
57.5°	5370.1	4765.3	5288.9	5190.6	5476.9
60°	4682.0	4002.5	4545.3	4523.9	5081.5
62.5°	4006.8	3464.0	3899.8	4214.0	4899.9
65°	3429.8	3045.1	3408.3	3985.4	4329.4
67.5°	2876.3	2730.9	3117.7	3438.2	3814.5
70°	2393.2	2468.1	3094.2	3034.4	3339.9
72.5°	1987.3	2241.7	2730.9	2741.6	2957.5
75°	1624.1	2043.0	2399.8	2564.4	2634.9
77.5°	1350.5	1852.7	2166.9	2224.6	2156.2
80°	1132.6	1632.5	1895.4	1869.8	1773.5
82.5°	914.5	1237.3	1493.8	1517.3	1403.9
85°	645.3	897.6	1096.3	1102.7	1017.2
87.5°	346.1	553.5	664.6	683.8	632.5
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)