

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: P731102

Luminaire Tested: **HBLED-LD5-48SE-W-AI-UNV-L735**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731102
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-L735
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: 42396.0 lumens
Efficiency: N/A
Efficacy: 148.5 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

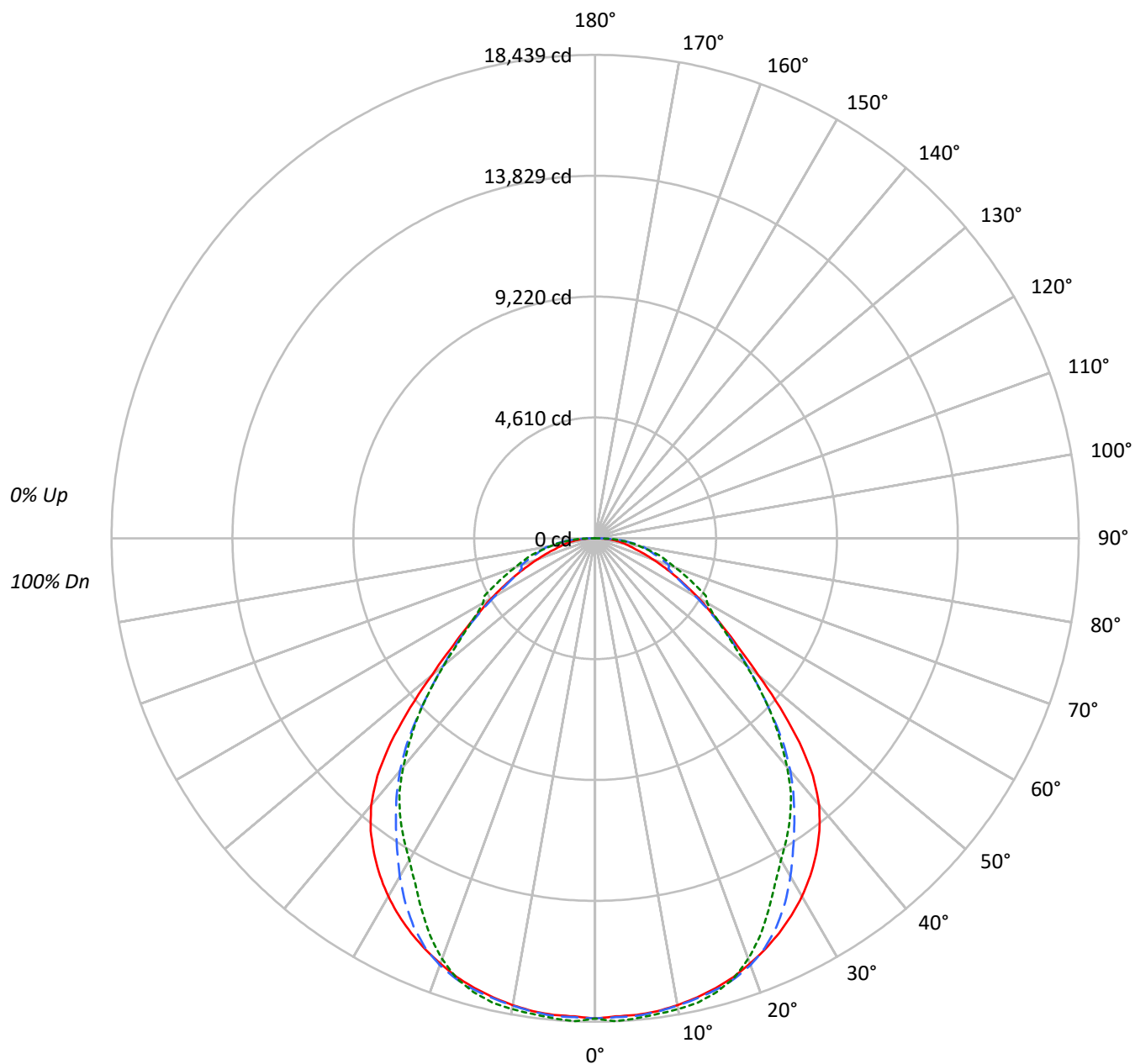
Input Watts (W): 285.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	29573	29573	29573
5°	29572	29636	29781
10°	29645	29683	29900
15°	29691	29802	29947
20°	29661	29771	29329
25°	29586	29143	27875
30°	29411	27768	26415
35°	28969	26099	25555
40°	28000	24402	24000
45°	25167	21790	21710
50°	20412	18980	18849
55°	16949	16634	16628
60°	14674	14246	15927
65°	12718	12639	16054
70°	10966	14177	15303
75°	9833	14531	15954
80°	10221	17106	16006
85°	11602	19713	18290



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1744.0	4.1
10°-20°	5036.7	11.9
20°-30°	7480.5	17.6
30°-40°	8492.5	20.0
40°-50°	7592.0	17.9
50°-60°	5249.1	12.4
60°-70°	3463.6	8.2
70°-80°	2336.8	5.5
80°-90°	1000.9	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°	14261.2	33.6
0°-40°	22753.7	53.7
0°-60°	35594.7	84.0
0°-90°	42396.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	42396.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18316	18316	18316	18316	18316	
5°	18246	18358	18285	18360	18374	###
15°	17763	17848	17829	17928	17916	5014
25°	16607	16765	16358	15871	15647	7652
35°	14697	14388	13241	13048	12965	9165
45°	11022	10088	9543	9616	9508	8382
55°	6021	5496	5909	5826	5907	5469
65°	3329	2956	3308	3868	4202	3322
75°	1576	1983	2329	2489	2557	1721
85°	626	871	1064	1070	987	653
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	18316.4	18316.4	18316.4	18316.4	18316.4
2.5°	18254.2	18368.3	18283.2	18362.1	18438.7
5°	18245.8	18357.9	18285.2	18359.9	18374.5
7.5°	18194.0	18297.6	18212.6	18285.2	18301.8
10°	18081.9	18204.4	18104.7	18216.8	18237.6
12.5°	17936.9	18061.3	17974.1	18127.5	18135.9
15°	17762.6	17847.6	17829.0	17928.4	17916.0
17.5°	17542.7	17640.3	17625.7	17650.5	17592.5
20°	17262.7	17372.6	17327.0	17212.9	17069.8
22.5°	16962.0	17094.7	16914.4	16626.0	16424.7
25°	16607.2	16764.9	16358.5	15871.1	15647.0
27.5°	16215.2	16356.3	15680.2	15082.9	14850.6
30°	15775.6	15835.7	14894.0	14325.8	14168.1
32.5°	15267.4	15180.4	14054.0	13678.6	13587.4
35°	14697.1	14388.0	13241.0	13048.1	12965.1
37.5°	14054.0	13488.0	12438.5	12349.2	12262.0
40°	13284.7	12448.7	11577.7	11519.6	11386.8
42.5°	12291.2	11318.3	10621.4	10553.0	10434.7
45°	11021.8	10088.4	9542.9	9615.5	9507.7
47.5°	9561.5	8854.4	8508.0	8707.1	8508.0
50°	8126.2	7651.4	7556.0	7736.4	7504.1
52.5°	6950.3	6523.1	6720.2	6751.2	6612.3
55°	6021.0	5496.4	5909.2	5826.1	5907.0
57.5°	5212.3	4625.2	5133.4	5038.0	5315.9
60°	4544.3	3884.8	4411.7	4390.9	4932.1
62.5°	3889.0	3362.2	3785.2	4090.1	4755.8
65°	3329.0	2955.6	3308.2	3868.2	4202.2
67.5°	2791.7	2650.6	3026.0	3337.2	3702.3
70°	2322.9	2395.5	3003.2	2945.2	3241.7
72.5°	1928.9	2175.8	2650.6	2661.1	2870.6
75°	1576.3	1982.9	2329.3	2489.0	2557.4
77.5°	1310.8	1798.2	2103.2	2159.2	2092.8
80°	1099.3	1584.5	1839.7	1814.9	1721.4
82.5°	887.6	1201.0	1449.9	1472.7	1362.6
85°	626.3	871.2	1064.1	1070.3	987.3
87.5°	336.0	537.3	645.1	663.7	613.9
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)