

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: P731123

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731123
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-003-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-48SE-W-UNV-L835
Description: 48000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45949.0 lumens
Efficiency: N/A
Efficacy: 160.9 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.31 / 1.43
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

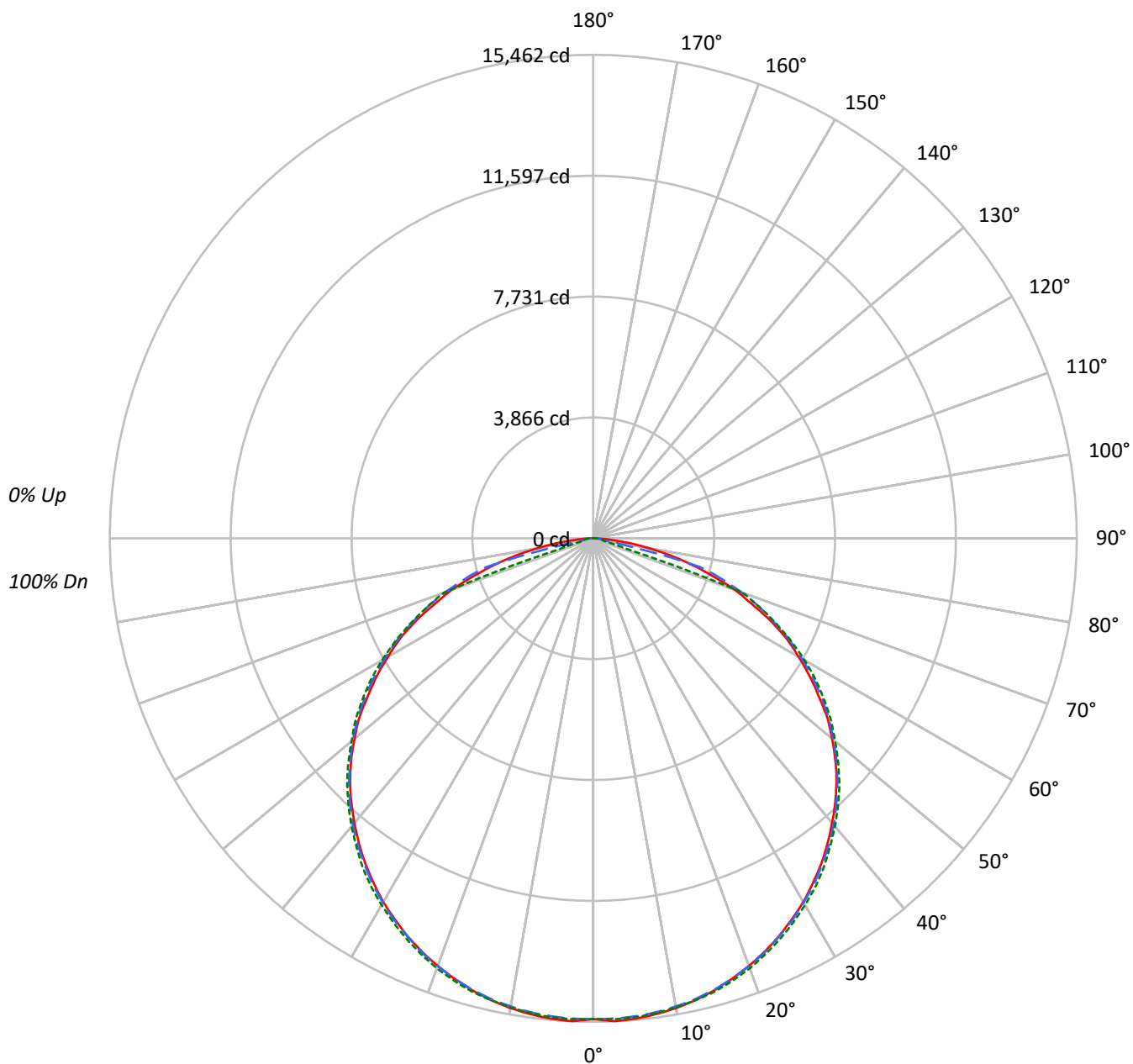
Input Watts (W): 285.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85		
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70		
3	90	80	72	65	88	78	71	64	75	69	63	72	67	62	70	65	61	59		
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50		
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43		
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37		
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33		
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29		
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26		
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24826	24826	24826
5°	25004	24876	24920
10°	25018	24928	24978
15°	25014	24980	25095
20°	25012	25018	25148
25°	25025	25037	25189
30°	25052	25084	25250
35°	25047	25128	25338
40°	25051	25210	25347
45°	25121	25215	25418
50°	25045	25192	25355
55°	24770	25117	25387
60°	24488	24887	25196
65°	23947	24444	24628
70°	22735	23705	23996
75°	20278	21987	2649
80°	16306	2739	2898
85°	10850	3553	3616



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1460.4	3.2
10°-20°	4219.7	9.2
20°-30°	6483.4	14.1
30°-40°	7981.3	17.4
40°-50°	8508.8	18.5
50°-60°	7954.0	17.3
60°-70°	6296.6	13.7
70°-80°	2678.9	5.8
80°-90°	365.8	0.8
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°	12163.5	26.5
0°-40°	20144.7	43.8
0°-60°	36607.6	79.7
0°-90°	45949.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	45949.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15376	15376	15376	15376	15376	
5°	15427	15359	15348	15287	15376	###
15°	14965	14937	14944	14903	15013	4225
25°	14047	14030	14054	14047	14139	6476
35°	12708	12687	12749	12793	12855	7951
45°	11002	10940	11043	11088	11132	8477
55°	8799	8827	8923	8954	9019	7880
65°	6268	6323	6398	6446	6446	6166
75°	3250	3391	3525	575	425	3439
85°	586	175	192	199	195	764
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15375.8	15375.8	15375.8	15375.8	15375.8
2.5°	15461.5	15389.6	15375.8	15314.2	15396.4
5°	15427.2	15358.7	15348.4	15286.8	15375.8
7.5°	15355.3	15300.5	15293.6	15228.6	15317.6
10°	15259.4	15208.0	15204.6	15146.4	15235.4
12.5°	15129.2	15084.7	15098.4	15040.2	15129.2
15°	14964.8	14937.4	14944.3	14903.2	15012.8
17.5°	14766.2	14752.5	14766.2	14735.3	14834.7
20°	14557.2	14540.1	14560.6	14543.5	14636.0
22.5°	14314.0	14293.5	14334.6	14310.6	14396.2
25°	14046.9	14029.7	14053.7	14046.9	14139.3
27.5°	13742.0	13724.9	13776.3	13779.7	13851.6
30°	13437.2	13413.2	13454.3	13471.4	13543.4
32.5°	13074.1	13067.2	13128.9	13142.6	13218.0
35°	12707.6	12687.0	12748.7	12793.2	12854.9
37.5°	12306.8	12303.4	12368.5	12406.2	12437.0
40°	11885.5	11868.4	11960.9	11998.6	12026.0
42.5°	11457.4	11419.7	11508.8	11556.7	11587.5
45°	11001.8	10940.2	11042.9	11087.5	11132.0
47.5°	10501.7	10446.9	10546.3	10594.2	10625.1
50°	9970.8	9919.5	10029.1	10070.2	10094.1
52.5°	9436.5	9385.1	9501.6	9535.8	9594.1
55°	8799.4	8826.8	8922.7	8953.5	9018.6
57.5°	8210.3	8234.2	8326.7	8364.4	8439.8
60°	7583.5	7621.1	7706.8	7744.4	7802.7
62.5°	6977.2	6980.6	7083.4	7100.5	7145.0
65°	6268.2	6323.0	6398.3	6446.3	6446.3
67.5°	5476.9	5610.5	5740.7	5730.4	5757.8
70°	4815.9	4867.2	5021.4	5045.4	5083.0
72.5°	3987.0	4120.5	4291.8	3206.0	1089.2
75°	3250.5	3391.0	3524.6	575.4	424.7
77.5°	2524.4	2634.0	1171.4	328.8	322.0
80°	1753.7	1928.4	294.6	301.4	311.7
82.5°	1154.3	941.9	243.2	267.2	270.6
85°	585.7	174.7	191.8	198.7	195.2
87.5°	191.8	106.2	109.6	113.0	116.5
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)