

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: P731108

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731108
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-L735
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: 44655.0 lumens
Efficiency: N/A
Efficacy: 156.4 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

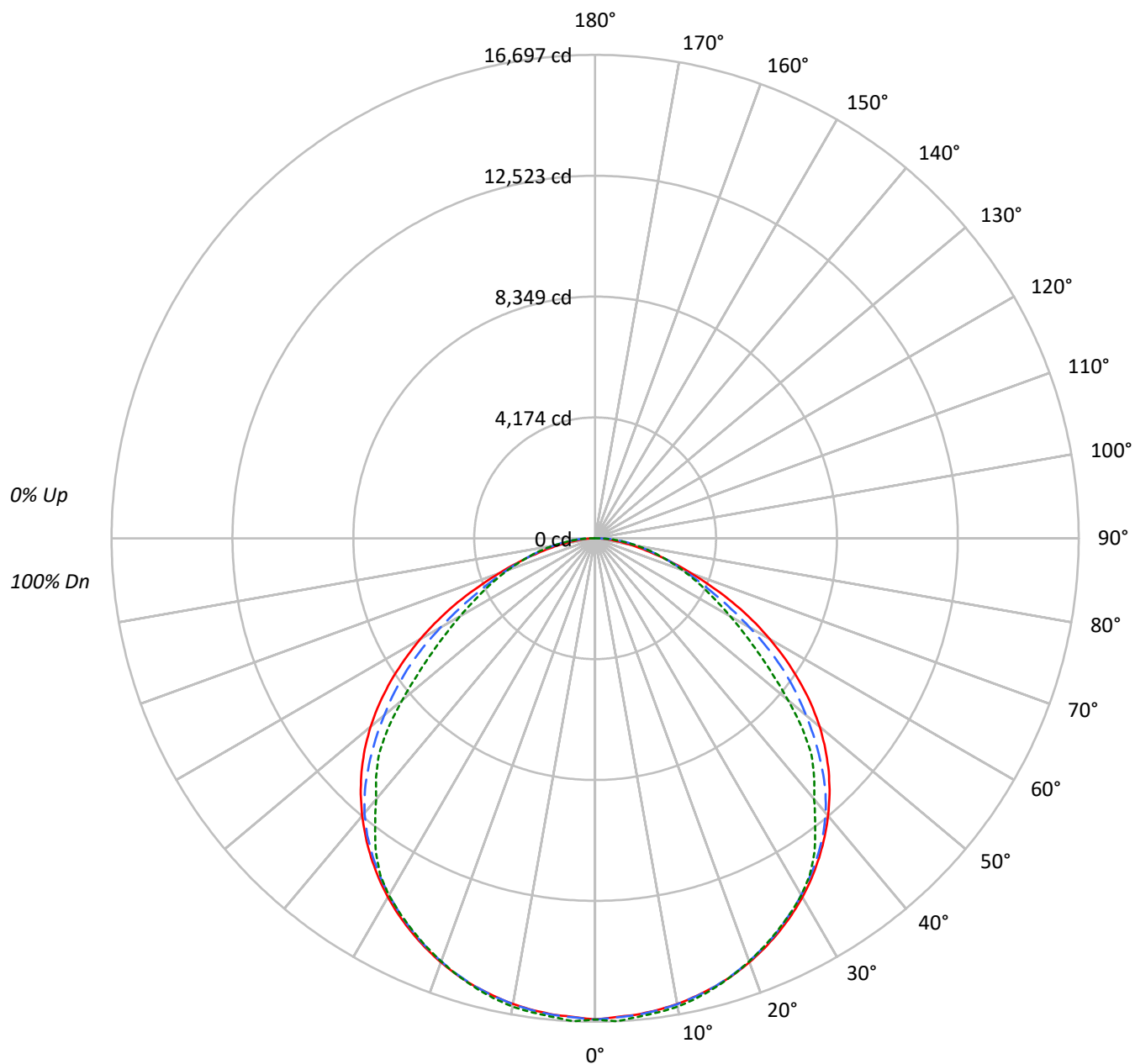
Input Watts (W): 285.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	26836	26836	26836
5°	26764	26783	26903
10°	26779	26792	26933
15°	26782	26779	26842
20°	26775	26714	26720
25°	26734	26635	26603
30°	26691	26531	26546
35°	26566	26401	26027
40°	26377	26108	24791
45°	26042	25208	24106
50°	25415	23867	21832
55°	24258	22321	19305
60°	22513	19916	17409
65°	20010	17243	16008
70°	16606	15410	15089
75°	13431	14103	14278
80°	10669	13489	13433
85°	8353	14490	13824



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1576.2	3.5
10°-20°	4533.9	10.2
20°-30°	6913.4	15.5
30°-40°	8364.2	18.7
40°-50°	8472.2	19.0
50°-60°	7002.5	15.7
60°-70°	4625.0	10.4
70°-80°	2411.7	5.4
80°-90°	756.1	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°	13023.5	29.2
0°-40°	21387.7	47.9
0°-60°	36862.3	82.5
0°-90°	44655.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	44655.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16621	16621	16621	16621	16621	
5°	16513	16613	16525	16597	16599	###
15°	16022	16104	16020	16070	16058	4524
25°	15007	15067	14951	14989	14933	6920
35°	13478	13496	13394	13376	13205	8430
45°	11405	11375	11040	10697	10557	8782
55°	8618	8490	7929	7159	6858	7681
65°	5238	5086	4513	4220	4190	5173
75°	2153	2191	2261	2290	2289	2345
85°	451	581	782	776	746	547
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16620.7	16620.7	16620.7	16620.7	16620.7
2.5°	16551.1	16648.8	16566.9	16638.8	16696.6
5°	16513.0	16612.9	16525.1	16596.9	16598.9
7.5°	16439.4	16539.1	16449.2	16521.0	16519.0
10°	16333.5	16427.4	16341.5	16427.4	16427.4
12.5°	16189.9	16281.6	16197.9	16277.6	16265.6
15°	16022.3	16104.0	16020.3	16070.2	16058.2
17.5°	15824.7	15898.6	15804.7	15846.6	15822.7
20°	15583.3	15651.2	15547.5	15601.3	15551.3
22.5°	15311.8	15375.7	15270.0	15310.0	15254.0
25°	15006.7	15066.6	14950.9	14988.7	14932.8
27.5°	14677.4	14731.2	14601.5	14647.6	14603.5
30°	14316.2	14342.3	14230.5	14290.4	14238.5
32.5°	13913.2	13929.2	13831.3	13885.2	13797.5
35°	13478.2	13496.2	13394.5	13376.5	13204.9
37.5°	13013.3	13021.3	12925.6	12763.9	12480.6
40°	12514.6	12510.6	12386.9	12013.7	11762.3
42.5°	11981.7	11979.9	11762.3	11337.2	11193.7
45°	11405.1	11375.3	11039.9	10696.8	10557.0
47.5°	10786.7	10754.6	10285.8	10012.5	9695.2
50°	10118.2	10062.3	9501.6	9128.4	8691.6
52.5°	9397.9	9312.0	8741.4	8138.8	7725.8
55°	8617.7	8490.0	7929.4	7159.2	6857.9
57.5°	7805.7	7616.1	7071.3	6321.2	6075.7
60°	6971.6	6760.0	6167.4	5551.0	5391.2
62.5°	6113.6	5904.1	5299.5	4834.7	4746.8
65°	5237.7	5085.9	4513.3	4220.1	4190.2
67.5°	4339.8	4285.9	3848.9	3699.3	3687.3
70°	3517.7	3507.7	3264.3	3188.4	3196.4
72.5°	2811.4	2799.4	2763.6	2725.5	2727.5
75°	2153.0	2190.8	2260.7	2290.5	2288.7
77.5°	1606.2	1684.1	1831.6	1891.5	1881.5
80°	1147.4	1263.1	1450.7	1506.5	1444.7
82.5°	764.2	885.9	1107.3	1115.3	1065.5
85°	450.9	580.6	782.2	776.2	746.2
87.5°	223.4	349.2	468.9	448.9	429.0
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)