

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: P730699

Luminaire Tested: **HBLED-LD5-24HE-W-CL-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730699
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23762)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24HE-W-CL-UNV-L850
Description: 24000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS
& DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22600.0 lumens
Efficiency: N/A
Efficacy: 158.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

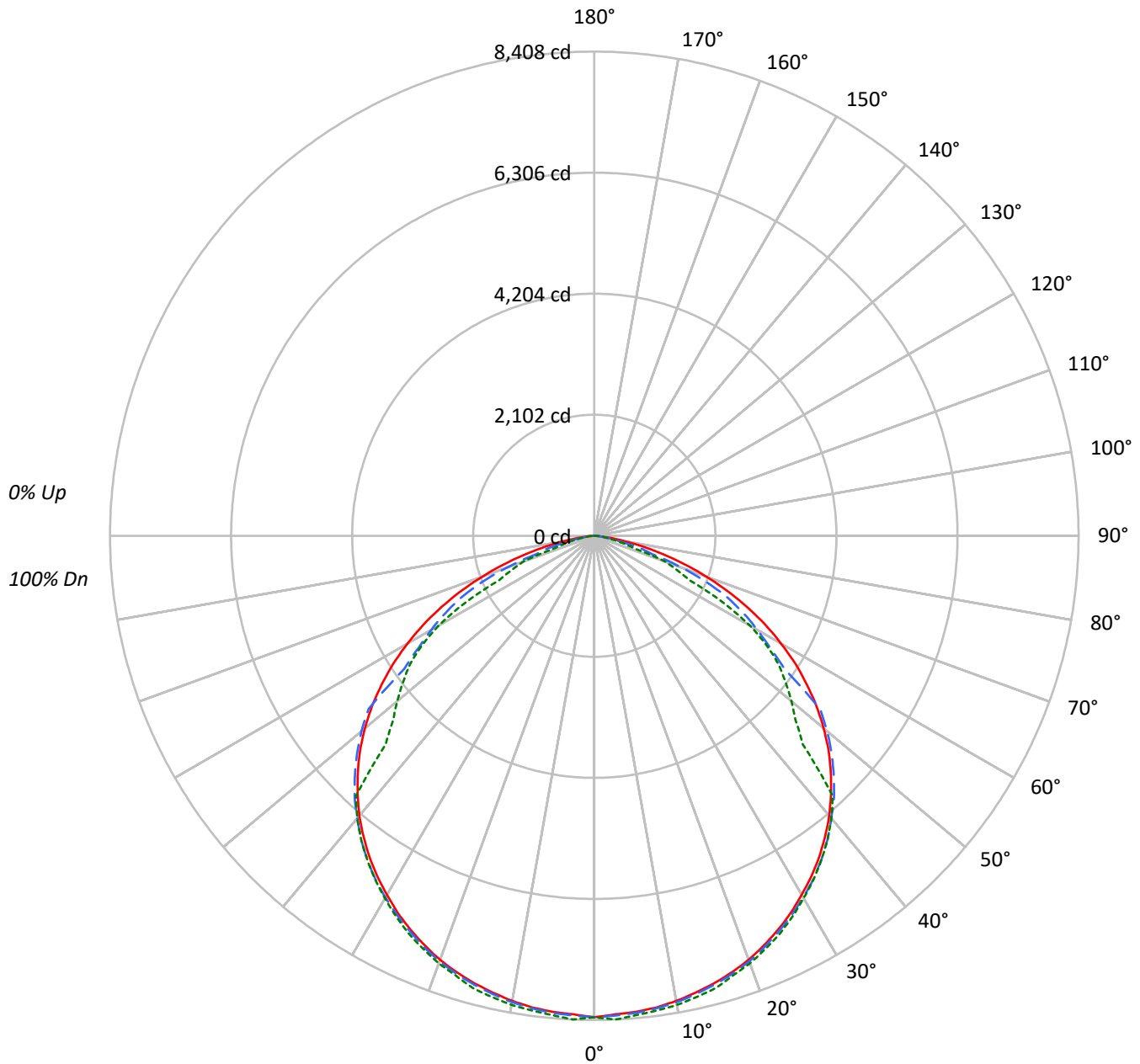
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P730699

CATALOG NUMBER: HBLED-LD5-24HE-W-CL-UNV-L850

Luminous Intensity Polar Plot





TEST NUMBER: P730699

CATALOG NUMBER: HBLED-LD5-24HE-W-CL-UNV-L850

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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62		
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53		
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46		
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40		
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36		
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32		
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29		
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13497	13497	13497
5°	13448	13478	13544
10°	13447	13485	13564
15°	13446	13487	13596
20°	13463	13514	13577
25°	13447	13498	13580
30°	13422	13521	13551
35°	13416	13538	13548
40°	13374	13492	13492
45°	13259	13420	11693
50°	13055	13252	11219
55°	12684	11343	11020
60°	12089	10544	10068
65°	11180	9788	6972
70°	9735	7616	6213
75°	7690	5112	3340
80°	4949	2442	2082
85°	2038	1489	1639



TEST NUMBER: P730699

CATALOG NUMBER: HBLED-LD5-24HE-W-CL-UNV-L850

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	793.0	3.5
10°-20°	2285.7	10.1
20°-30°	3504.3	15.5
30°-40°	4295.0	19.0
40°-50°	4415.6	19.5
50°-60°	3768.5	16.7
60°-70°	2491.4	11.0
70°-80°	923.1	4.1
80°-90°	123.4	0.5
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°	6582.9	29.1
0°-40°	10877.9	48.1
0°-60°	19062.1	84.3
0°-90°	22600.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22600.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8360	8360	8360	8360	8360	
5°	8298	8356	8316	8348	8357	789
15°	8044	8093	8068	8130	8134	2272
25°	7548	7588	7577	7645	7623	3480
35°	6806	6853	6868	6911	6874	4257
45°	5807	5865	5877	5868	5121	4475
55°	4506	4588	4030	3913	3915	4021
65°	2926	2951	2562	2107	1825	2885
75°	1233	1080	819	551	535	1322
85°	110	78	80	88	88	182
90°	0	0	0	0	0	



TEST NUMBER: P730699

CATALOG NUMBER: HBLED-LD5-24HE-W-CL-UNV-L850

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8359.7	8359.7	8359.7	8359.7	8359.7
2.5°	8318.9	8370.9	8340.3	8378.9	8408.5
5°	8297.6	8355.6	8315.9	8348.4	8356.6
7.5°	8260.9	8314.8	8278.2	8321.0	8314.8
10°	8201.9	8250.7	8225.3	8270.1	8273.1
12.5°	8126.6	8175.4	8152.0	8206.9	8205.9
15°	8044.1	8093.0	8068.5	8129.6	8133.7
17.5°	7947.4	7992.2	7973.8	8029.9	8007.4
20°	7835.4	7874.1	7864.9	7917.9	7901.6
22.5°	7698.0	7737.7	7728.6	7789.7	7765.2
25°	7548.4	7588.1	7576.9	7645.1	7622.8
27.5°	7386.6	7424.2	7423.2	7487.4	7452.8
30°	7199.3	7249.2	7252.3	7309.2	7268.5
32.5°	7014.1	7060.8	7074.1	7115.9	7081.3
35°	6806.4	6853.2	6868.5	6911.3	6873.6
37.5°	6582.4	6622.2	6649.6	6681.2	6651.7
40°	6345.3	6380.9	6401.3	6439.9	6401.3
42.5°	6080.7	6131.6	6160.1	6187.6	6124.5
45°	5806.9	5864.8	5877.1	5867.9	5120.8
47.5°	5516.8	5579.9	5587.1	4872.5	4735.1
50°	5197.2	5276.6	5275.6	4502.9	4466.4
52.5°	4864.3	4940.7	4937.7	4213.9	4189.5
55°	4506.0	4588.5	4029.7	3912.7	3914.7
57.5°	4140.6	4199.6	3615.5	3620.5	3553.3
60°	3743.7	3799.6	3265.3	3233.7	3117.7
62.5°	3345.7	3369.1	2926.3	2772.6	2551.8
65°	2926.3	2950.7	2562.0	2107.0	1825.0
67.5°	2495.8	2520.2	2126.3	1567.5	1546.1
70°	2062.1	1862.7	1613.4	1306.0	1316.1
72.5°	1634.7	1431.1	1054.5	1011.7	730.8
75°	1232.7	1079.9	819.4	550.7	535.4
77.5°	858.1	744.0	438.7	375.6	351.2
80°	532.3	373.6	262.6	233.1	223.9
82.5°	269.7	214.8	142.5	142.5	142.5
85°	110.0	78.4	80.4	87.5	88.5
87.5°	23.4	31.5	38.7	39.7	38.7
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)