

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: P730771

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730771
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-LD5-24SE-W-CL-UNV-L850
Description: 24000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS
& DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22466.0 lumens
Efficiency: N/A
Efficacy: 149.8 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

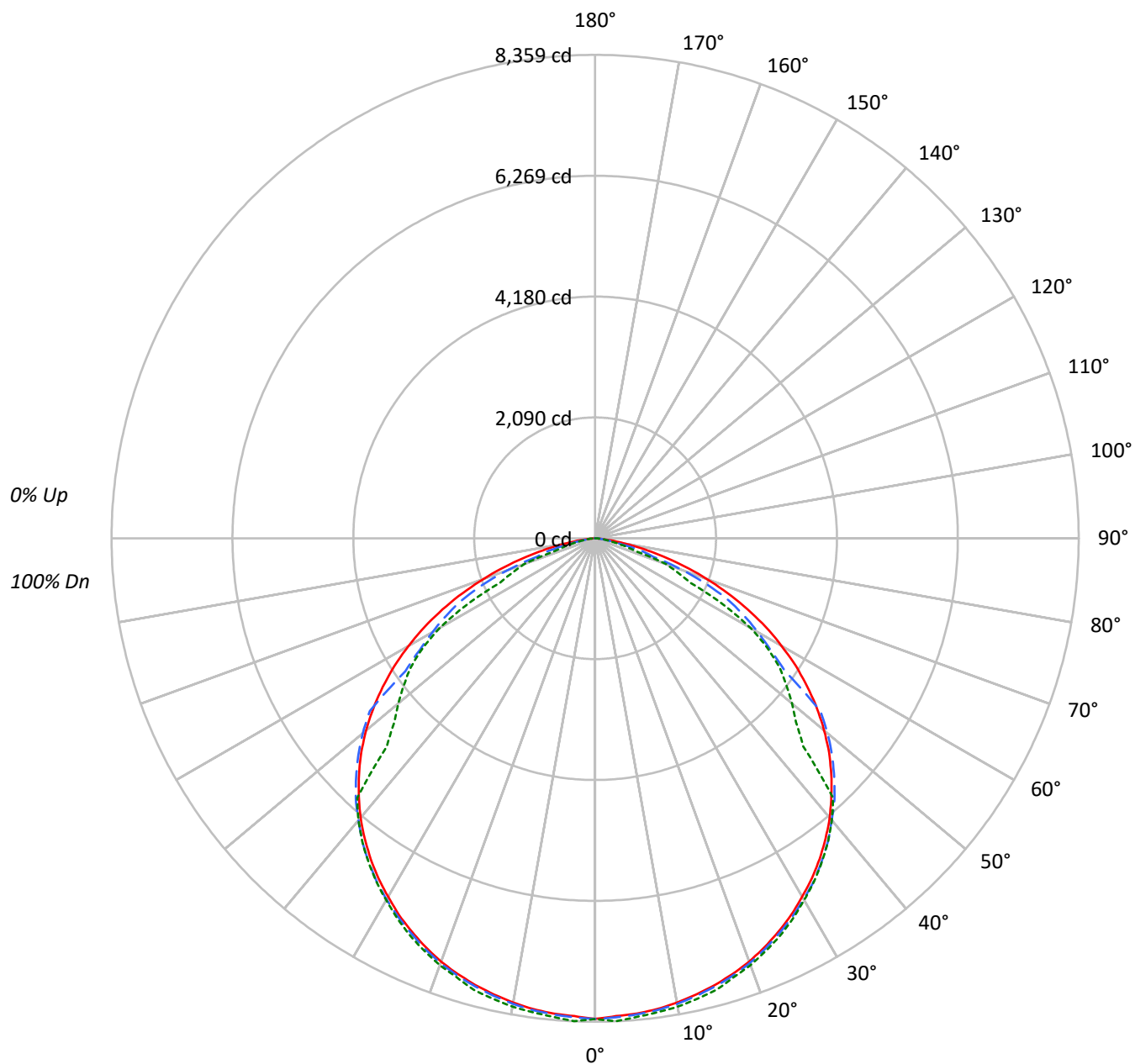
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P730771

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

Luminous Intensity Polar Plot





TEST NUMBER: P730771

CATALOG NUMBER: HBLED-LD5-24SE-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°	13417	13417	13417
5°	13369	13398	13464
10°	13367	13405	13483
15°	13366	13407	13515
20°	13383	13433	13496
25°	13368	13418	13499
30°	13343	13441	13471
35°	13336	13458	13468
40°	13295	13412	13412
45°	13181	13340	11623
50°	12977	13173	11152
55°	12609	11276	10954
60°	12017	10482	10008
65°	11114	9730	6931
70°	9677	7571	6176
75°	7644	5081	3320
80°	4920	2427	2070
85°	2025	1482	1630



TEST NUMBER: P730771

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	788.3	3.5
10°-20°	2272.1	10.1
20°-30°	3483.5	15.5
30°-40°	4269.6	19.0
40°-50°	4389.4	19.5
50°-60°	3746.2	16.7
60°-70°	2476.7	11.0
70°-80°	917.6	4.1
80°-90°	122.7	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°	6543.9	29.1
0°-40°	10813.5	48.1
0°-60°	18949.1	84.3
0°-90°	22466.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22466.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8310	8310	8310	8310	8310	
5°	8248	8306	8266	8299	8307	785
15°	7996	8045	8021	8081	8086	2259
25°	7504	7543	7532	7600	7578	3460
35°	6766	6813	6828	6870	6833	4232
45°	5772	5830	5842	5833	5090	4448
55°	4479	4561	4006	3890	3892	3997
65°	2909	2933	2547	2094	1814	2868
75°	1225	1074	814	547	532	1315
85°	109	78	80	87	88	181
90°	0	0	0	0	0	



TEST NUMBER: P730771

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8310.1	8310.1	8310.1	8310.1	8310.1
2.5°	8269.6	8321.3	8290.8	8329.3	8358.6
5°	8248.4	8306.0	8266.5	8298.9	8307.0
7.5°	8212.0	8265.5	8229.1	8271.6	8265.5
10°	8153.3	8201.8	8176.5	8221.1	8224.0
12.5°	8078.4	8126.9	8103.7	8158.3	8157.2
15°	7996.4	8045.0	8020.6	8081.4	8085.5
17.5°	7900.3	7944.8	7926.6	7982.3	7960.0
20°	7789.0	7827.4	7818.3	7871.0	7854.7
22.5°	7652.4	7691.8	7682.8	7743.5	7719.1
25°	7503.7	7543.2	7532.0	7599.8	7577.6
27.5°	7342.8	7380.2	7379.2	7443.0	7408.6
30°	7156.6	7206.2	7209.3	7265.9	7225.4
32.5°	6972.5	7019.0	7032.2	7073.7	7039.3
35°	6766.1	6812.6	6827.8	6870.3	6832.9
37.5°	6543.4	6582.9	6610.2	6641.6	6612.2
40°	6307.7	6343.1	6363.4	6401.7	6363.4
42.5°	6044.6	6095.3	6123.6	6150.9	6088.2
45°	5772.4	5830.1	5842.2	5833.1	5090.4
47.5°	5484.1	5546.8	5553.9	4843.6	4707.0
50°	5166.4	5245.3	5244.3	4476.2	4439.9
52.5°	4835.5	4911.4	4908.4	4188.9	4164.7
55°	4479.3	4561.3	4005.8	3889.5	3891.5
57.5°	4116.1	4174.7	3594.0	3599.0	3532.2
60°	3721.5	3777.1	3245.9	3214.6	3099.2
62.5°	3325.9	3349.1	2909.0	2756.2	2536.6
65°	2909.0	2933.3	2546.8	2094.5	1814.2
67.5°	2481.0	2505.3	2113.7	1558.2	1536.9
70°	2049.9	1851.6	1603.8	1298.2	1308.3
72.5°	1625.0	1422.6	1048.2	1005.7	726.4
75°	1225.3	1073.5	814.5	547.4	532.2
77.5°	853.0	739.6	436.1	373.4	349.1
80°	529.1	371.3	261.0	231.7	222.6
82.5°	268.1	213.5	141.7	141.7	141.7
85°	109.3	77.9	80.0	87.0	88.0
87.5°	23.2	31.4	38.5	39.5	38.5
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)