

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: P730777

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730777
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33385)
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-WG-UNV-L850
Description: 24000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS,
WIREGUARD & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22092.0 lumens
Efficiency: N/A
Efficacy: 147.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

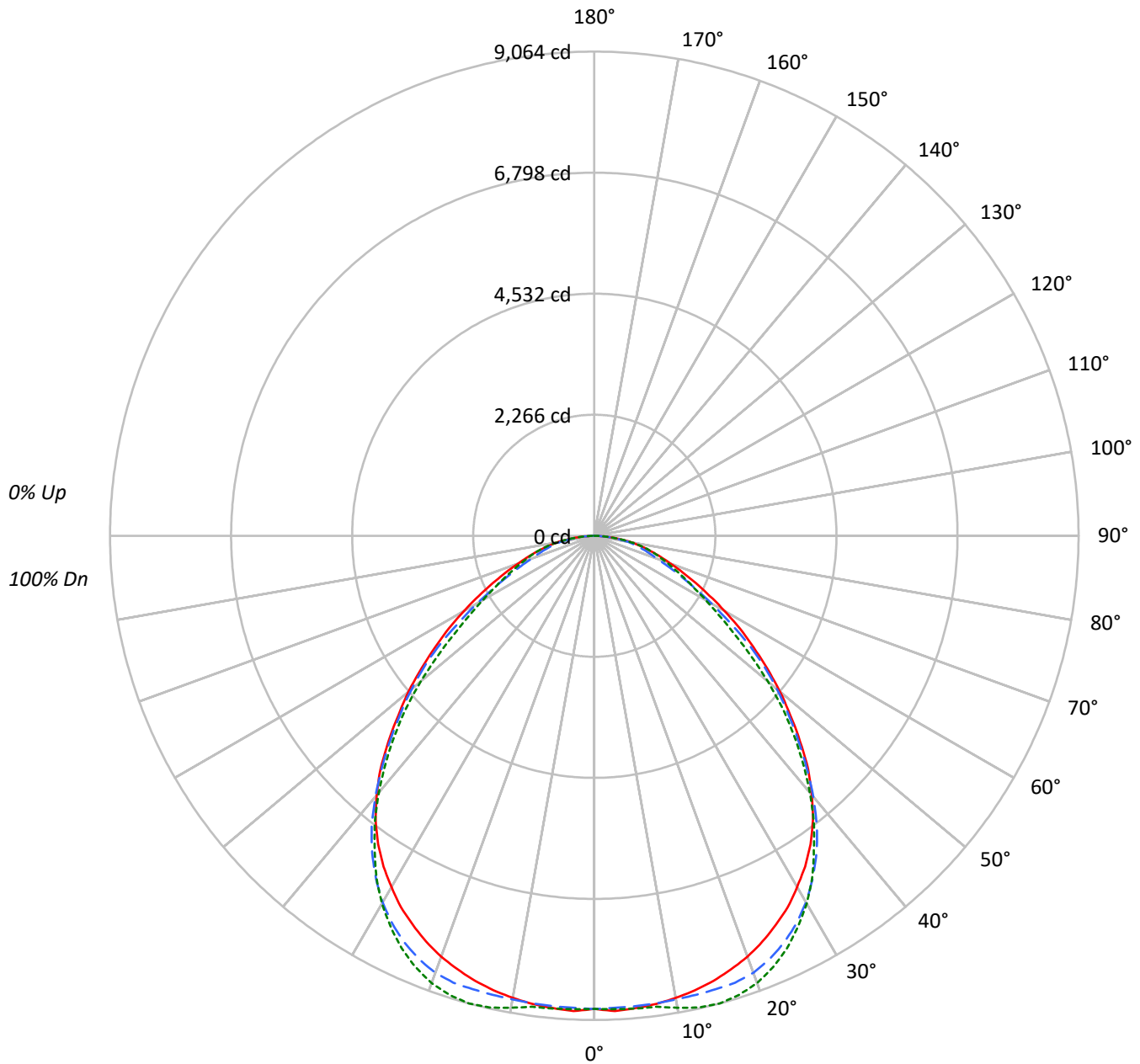
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73		
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	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	65	57	52	63	56	51	61	55	50	60	54	50	48		
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44	42		
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38		
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34		
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31		
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14302	14302	14302
5°	14387	14327	14398
10°	14400	14448	14707
15°	14417	14689	15151
20°	14408	14957	15307
25°	14320	14971	15191
30°	14155	14773	14820
35°	13902	14294	14123
40°	13354	13436	13224
45°	12443	12312	12062
50°	11392	11209	10635
55°	10233	9853	8991
60°	9075	8153	7762
65°	7996	6774	7044
70°	7151	5879	6709
75°	6699	5716	6785
80°	6522	5779	6457
85°	5206	4572	4741



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	843.8	3.8
10°-20°	2485.6	11.3
20°-30°	3823.8	17.3
30°-40°	4462.5	20.2
40°-50°	4146.9	18.8
50°-60°	3073.8	13.9
60°-70°	1879.1	8.5
70°-80°	1070.3	4.8
80°-90°	306.1	1.4
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°	7153.2	32.4
0°-40°	11615.7	52.6
0°-60°	18836.5	85.3
0°-90°	22092.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22092.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8858	8858	8858	8858	8858	
5°	8877	8835	8840	8833	8883	844
15°	8625	8621	8787	8961	9064	2435
25°	8038	8100	8404	8474	8527	3703
35°	7053	7108	7252	7193	7165	4395
45°	5449	5481	5392	5308	5282	4199
55°	3635	3544	3500	3251	3194	3262
65°	2093	1901	1773	1821	1844	2095
75°	1074	1008	916	1044	1088	1149
85°	281	274	247	256	256	324
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8858.3	8858.3	8858.3	8858.3	8858.3
2.5°	8906.2	8856.0	8846.8	8826.3	8871.9
5°	8876.6	8835.4	8839.9	8833.2	8883.4
7.5°	8842.2	8812.6	8830.8	8828.5	8894.8
10°	8782.9	8766.8	8812.6	8862.8	8970.2
12.5°	8716.6	8700.6	8801.2	8929.0	9045.6
15°	8625.2	8620.6	8787.4	8961.0	9063.9
17.5°	8511.0	8517.8	8771.4	8920.0	9011.3
20°	8385.3	8396.7	8705.2	8826.3	8908.6
22.5°	8223.1	8262.0	8577.2	8677.7	8741.7
25°	8038.0	8099.7	8403.6	8474.4	8526.9
27.5°	7839.2	7900.9	8188.8	8225.3	8255.1
30°	7592.4	7679.3	7923.7	7928.4	7948.9
32.5°	7341.1	7418.8	7606.2	7585.6	7590.1
35°	7053.2	7108.1	7252.0	7192.6	7165.2
37.5°	6722.0	6751.6	6843.0	6754.0	6749.3
40°	6335.8	6374.6	6374.6	6251.3	6274.1
42.5°	5924.6	5938.2	5881.2	5764.6	5782.9
45°	5449.3	5481.3	5392.1	5307.6	5282.5
47.5°	4978.6	5010.6	4916.9	4818.7	4775.3
50°	4535.4	4519.3	4462.3	4295.5	4233.8
52.5°	4076.1	4025.9	4003.0	3758.6	3687.7
55°	3635.1	3543.8	3500.4	3251.3	3194.1
57.5°	3226.1	3061.7	2979.4	2785.2	2762.3
60°	2810.4	2625.3	2524.7	2399.1	2403.6
62.5°	2433.4	2239.1	2118.1	2081.5	2097.5
65°	2092.9	1900.9	1773.1	1821.0	1843.8
67.5°	1784.5	1626.8	1482.9	1594.8	1617.6
70°	1514.9	1389.2	1245.3	1409.8	1421.2
72.5°	1290.9	1188.1	1067.0	1222.3	1247.5
75°	1073.9	1007.6	916.2	1044.2	1087.6
77.5°	884.2	831.7	779.1	856.9	904.8
80°	701.4	648.9	621.5	662.5	694.5
82.5°	495.8	461.6	434.1	463.8	479.9
85°	281.0	274.1	246.8	255.9	255.9
87.5°	64.0	73.1	82.3	75.4	64.0
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)