

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: P730786

Luminaire Tested: **HBLED-LD5-24SE-W-FLI-UNV-L750**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730786
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26703)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24SE-W-FLI-UNV-L750
Description: 24000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23272.0 lumens
Efficiency: N/A
Efficacy: 155.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

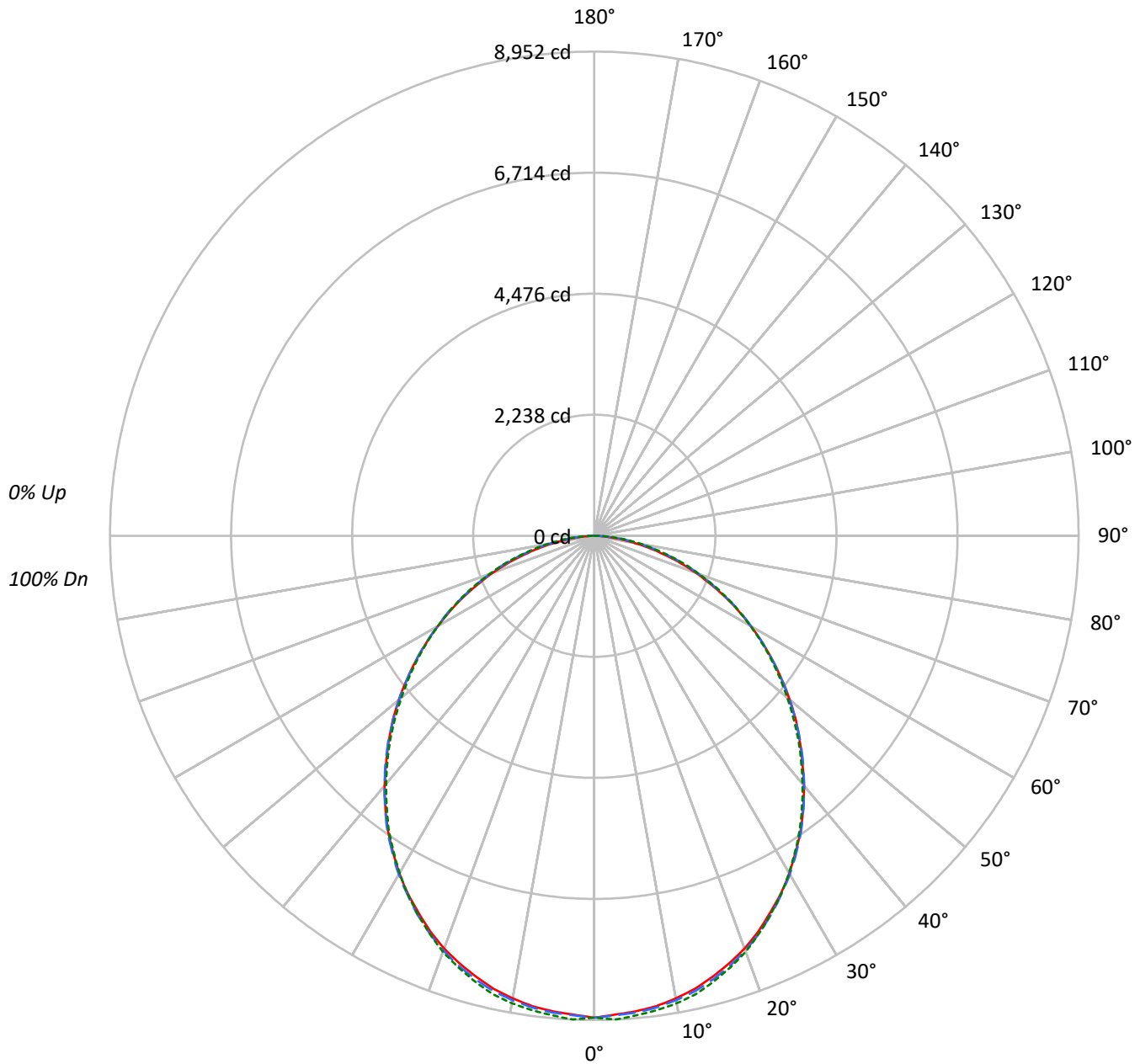
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47
6	71	58	49	42	69	57	48	42	55	47	42	53	47	42	52	46	41
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14385	14385	14385
5°	14303	14343	14425
10°	14238	14295	14388
15°	14113	14189	14259
20°	13953	14020	14061
25°	13695	13772	13752
30°	13442	13478	13423
35°	13109	13143	13059
40°	12715	12715	12617
45°	12271	12304	12179
50°	11849	11829	11681
55°	11336	11337	11236
60°	10787	10800	10758
65°	10167	10269	10294
70°	9390	9647	9658
75°	8299	8836	8974
80°	6806	7739	8176
85°	4724	6497	7347



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	842.6	3.6
10°-20°	2397.0	10.3
20°-30°	3562.1	15.3
30°-40°	4165.0	17.9
40°-50°	4152.6	17.8
50°-60°	3602.9	15.5
60°-70°	2661.2	11.4
70°-80°	1489.9	6.4
80°-90°	397.5	1.7
90°-100°	1.2	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°	6801.6	29.2
0°-40°	10966.6	47.1
0°-60°	18722.1	80.4
0°-90°	23270.8	100.0
90°-120°	1.2	0.0
90°-150°	1.2	0.0
90°-180°	1.0	0.0
0°-180°	23272.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8909	8909	8909	8909	8909	
5°	8825	8880	8850	8889	8900	838
15°	8443	8502	8489	8530	8530	2381
25°	7687	7749	7731	7748	7719	3544
35°	6651	6709	6668	6667	6625	4154
45°	5374	5431	5389	5366	5334	4148
55°	4027	4055	4028	4021	3991	3601
65°	2661	2687	2688	2701	2694	2632
75°	1330	1370	1416	1427	1438	1417
85°	255	308	351	382	397	310
90°	0	6	7	15	14	10
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8909.2	8909.2	8909.2	8909.2	8909.2
2.5°	8860.5	8913.2	8876.3	8911.5	8952.3
5°	8824.8	8880.3	8849.7	8888.8	8900.1
7.5°	8772.7	8826.5	8797.0	8836.1	8848.0
10°	8684.2	8742.7	8719.4	8763.6	8776.1
12.5°	8581.2	8636.1	8620.8	8672.3	8680.9
15°	8442.9	8501.9	8488.8	8529.6	8530.2
17.5°	8289.9	8345.4	8335.8	8367.6	8366.4
20°	8120.6	8180.0	8159.7	8194.2	8183.4
22.5°	7920.0	7983.4	7957.9	7986.8	7959.6
25°	7687.1	7748.9	7730.8	7747.7	7719.4
27.5°	7461.6	7518.3	7480.8	7501.3	7471.2
30°	7210.0	7258.2	7229.4	7236.1	7199.9
32.5°	6927.3	6984.6	6949.4	6948.3	6909.8
35°	6650.9	6709.2	6667.9	6666.7	6625.4
37.5°	6344.9	6399.3	6350.6	6353.4	6305.3
40°	6032.7	6079.8	6032.7	6030.4	5986.3
42.5°	5693.9	5756.3	5713.2	5718.3	5659.4
45°	5373.9	5431.1	5388.6	5366.4	5333.6
47.5°	5054.9	5079.8	5044.7	5039.0	4992.6
50°	4717.2	4735.9	4709.2	4702.5	4650.4
52.5°	4368.2	4400.5	4366.5	4357.4	4322.9
55°	4027.1	4054.8	4027.6	4020.9	3991.4
57.5°	3683.8	3720.1	3692.3	3685.4	3661.7
60°	3340.5	3351.2	3344.4	3354.6	3331.4
62.5°	2999.4	3024.3	3032.3	3029.4	3011.3
65°	2661.1	2687.2	2687.8	2701.4	2694.5
67.5°	2315.0	2348.9	2358.7	2372.7	2379.0
70°	1989.1	2015.2	2043.6	2052.0	2045.8
72.5°	1661.1	1703.1	1734.8	1742.2	1768.8
75°	1330.3	1369.9	1416.4	1426.6	1438.5
77.5°	1023.2	1075.9	1117.8	1131.4	1146.2
80°	732.0	790.3	832.3	850.9	879.3
82.5°	480.4	540.0	582.4	601.1	635.7
85°	255.0	308.2	350.7	381.8	396.6
87.5°	75.3	120.7	145.0	154.1	167.2
90°	0.0	5.7	6.8	15.3	14.2
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - 90°-270°







107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



(END OF REPORT)