

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: P730799

Luminaire Tested: **HBLED-LD5-24SE-W-WG-UNV-L835**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730799
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33336)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24SE-W-WG-UNV-L835
Description: 24000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND WIREGUARD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22486.0 lumens
Efficiency: N/A
Efficacy: 149.9 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

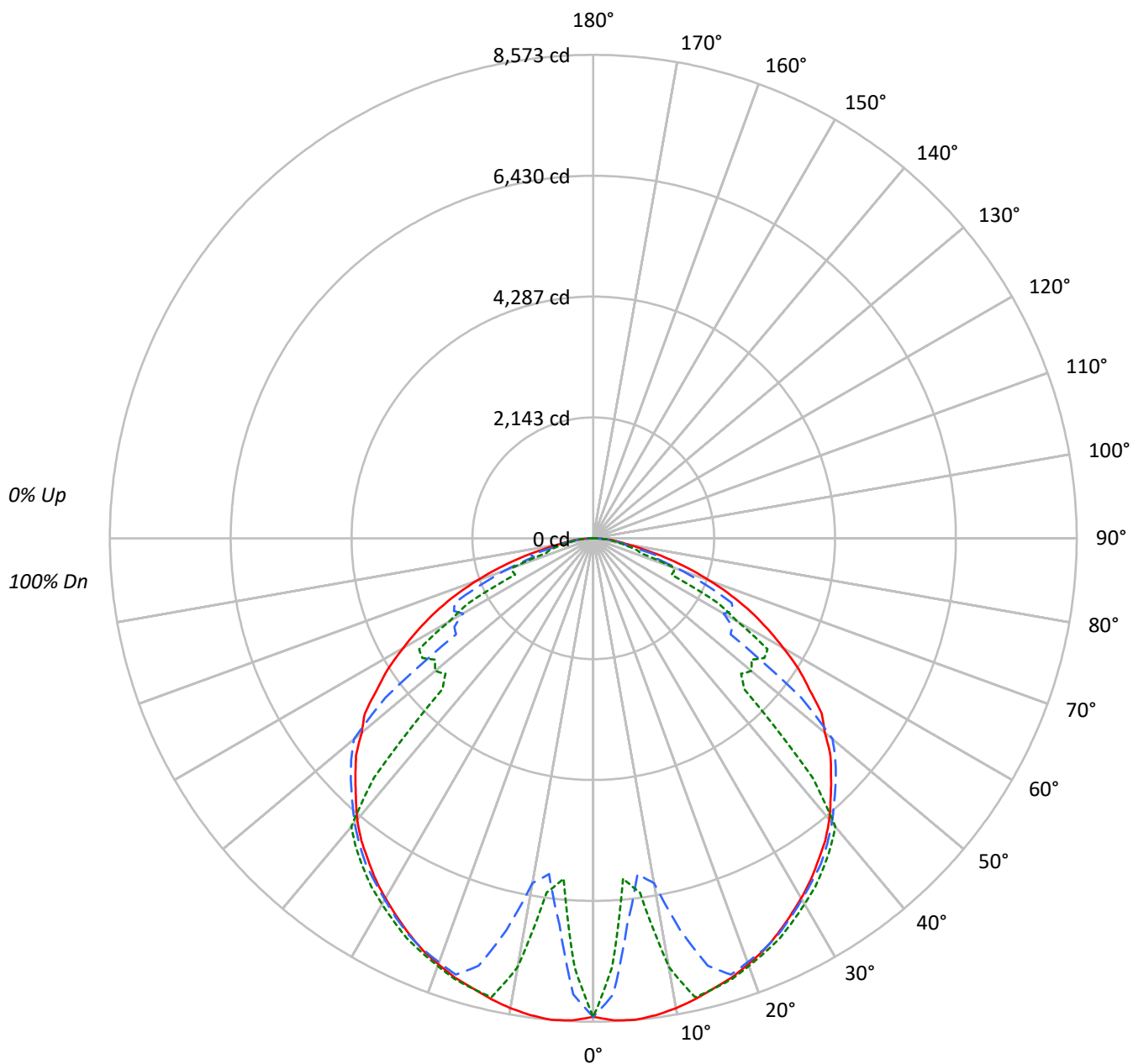
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47
6	71	58	49	43	69	57	49	42	55	48	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	33	46	38	33	44	38	33	43	37	33
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13704	13704	13704
5°	13895	11162	9817
10°	13871	10180	12661
15°	13809	13121	13821
20°	13809	13747	13869
25°	13785	13815	13942
30°	13745	13790	13968
35°	13723	13875	14037
40°	13725	13874	14073
45°	13617	13884	8628
50°	13463	13912	9195
55°	13179	8365	10422
60°	12572	8623	9544
65°	11780	10353	5839
70°	10402	7844	7158
75°	8288	7129	4964
80°	5709	5152	4266
85°	5471	4755	4513



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	678.7	3.0
10°-20°	2126.3	9.5
20°-30°	3498.3	15.6
30°-40°	4398.6	19.6
40°-50°	4314.0	19.2
50°-60°	3574.3	15.9
60°-70°	2521.1	11.2
70°-80°	1099.9	4.9
80°-90°	274.8	1.2
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°	6303.3	28.0
0°-40°	10702.0	47.6
0°-60°	18590.2	82.7
0°-90°	22486.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22486.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8488	8488	8488	8488	8488	
5°	8573	7979	6887	6245	6057	814
15°	8261	5737	7849	8294	8268	2336
25°	7738	7080	7755	7807	7826	3567
35°	6962	6958	7039	7086	7122	4362
45°	5964	5982	6080	5385	3778	4603
55°	4682	4835	2972	3379	3702	4189
65°	3083	3265	2710	2085	1528	3032
75°	1329	1302	1143	747	796	1425
85°	295	263	257	246	244	306
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8487.7	8487.7	8487.7	8487.7	8487.7
2.5°	8557.8	8380.2	8098.0	7742.8	7617.0
5°	8573.0	7979.2	6887.2	6244.8	6057.0
7.5°	8529.4	7251.5	6004.3	6139.2	6338.1
10°	8460.4	6612.2	6209.3	7305.3	7722.5
12.5°	8372.0	6043.8	7113.5	8252.3	8335.4
15°	8261.4	5737.4	7849.4	8293.9	8268.5
17.5°	8168.0	5916.9	8113.2	8210.6	8192.3
20°	8037.1	6275.2	8000.6	8078.7	8071.6
22.5°	7905.2	6699.4	7894.0	7949.9	7949.9
25°	7737.7	7080.1	7754.9	7806.8	7826.0
27.5°	7554.0	7299.2	7581.4	7624.0	7658.5
30°	7372.3	7330.8	7396.7	7451.5	7492.1
32.5°	7180.5	7164.3	7216.0	7273.9	7325.6
35°	6962.3	6958.2	7039.4	7086.1	7121.7
37.5°	6757.3	6743.1	6818.2	6883.2	6910.6
40°	6511.7	6511.7	6582.7	6648.7	6677.2
42.5°	6231.5	6271.2	6326.0	6393.9	5758.6
45°	5963.6	5981.9	6080.3	5385.2	3778.5
47.5°	5705.8	5729.1	5822.6	3461.9	3556.3
50°	5359.8	5465.3	5538.4	3451.8	3660.8
52.5°	5107.1	5152.7	4649.3	3417.3	3534.9
55°	4681.8	4835.0	2971.6	3378.7	3702.4
57.5°	4318.5	4430.1	2922.0	3461.9	3662.8
60°	3893.2	4063.7	2670.2	3340.1	2955.4
62.5°	3485.2	3647.6	2788.0	2628.7	2502.8
65°	3083.3	3265.0	2709.8	2084.6	1528.4
67.5°	2642.8	2473.4	2161.8	1468.6	1545.7
70°	2203.4	1727.4	1661.5	1642.2	1516.3
72.5°	1751.7	1260.5	1103.2	1232.1	882.0
75°	1328.6	1302.2	1142.8	747.0	795.7
77.5°	921.5	939.8	612.0	728.7	604.8
80°	614.0	531.9	554.1	464.8	458.8
82.5°	425.3	434.4	364.3	353.2	358.3
85°	295.3	262.9	256.7	245.7	243.6
87.5°	98.4	114.7	106.6	96.4	102.6
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)