

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: P730801

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730801
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-L850
Description: 24000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND WIREGUARD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23588.0 lumens
Efficiency: N/A
Efficacy: 157.3 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

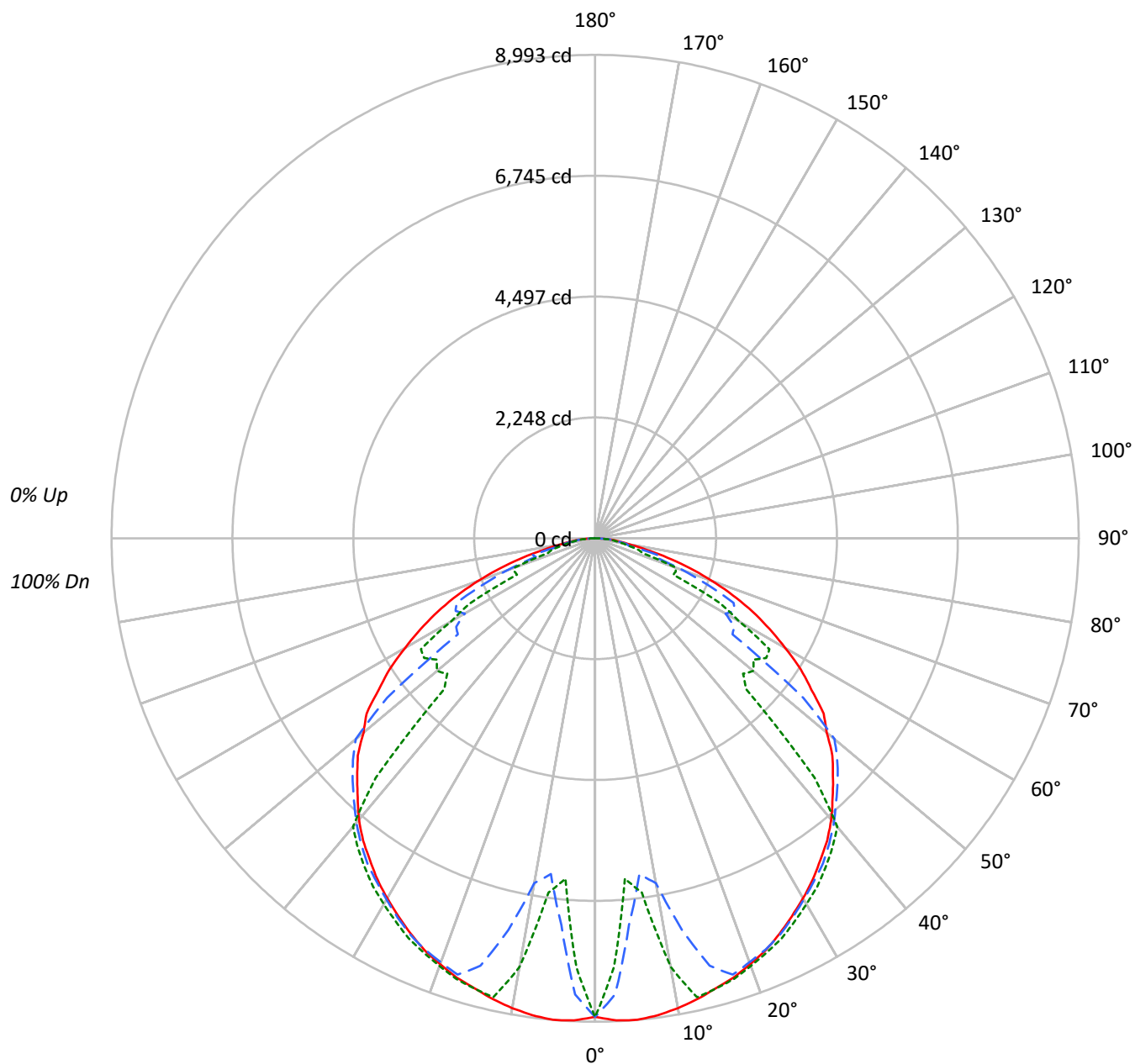
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	14376	14376	14376
5°	14576	11709	10298
10°	14551	10679	13282
15°	14486	13764	14498
20°	14486	14420	14548
25°	14460	14493	14625
30°	14418	14466	14652
35°	14396	14555	14725
40°	14397	14554	14763
45°	14285	14564	9051
50°	14123	14593	9646
55°	13825	8775	10933
60°	13188	9045	10011
65°	12357	10860	6125
70°	10912	8228	7509
75°	8694	7479	5207
80°	5989	5405	4475
85°	5739	4989	4733



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	712.0	3.0
10°-20°	2230.5	9.5
20°-30°	3669.7	15.6
30°-40°	4614.2	19.6
40°-50°	4525.4	19.2
50°-60°	3749.5	15.9
60°-70°	2644.6	11.2
70°-80°	1153.8	4.9
80°-90°	288.3	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°	6612.2	28.0
0°-40°	11226.4	47.6
0°-60°	19501.3	82.7
0°-90°	23588.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23588.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8904	8904	8904	8904	8904	
5°	8993	8370	7225	6551	6354	854
15°	8666	6018	8234	8700	8674	2451
25°	8117	7427	8135	8189	8210	3741
35°	7304	7299	7384	7433	7471	4576
45°	6256	6275	6378	5649	3964	4829
55°	4911	5072	3117	3544	3884	4394
65°	3234	3425	2843	2187	1603	3180
75°	1394	1366	1199	784	835	1495
85°	310	276	269	258	256	321
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8903.7	8903.7	8903.7	8903.7	8903.7
2.5°	8977.2	8790.8	8494.9	8122.2	7990.3
5°	8993.1	8370.3	7224.7	6550.8	6353.8
7.5°	8947.4	7606.9	6298.5	6440.0	6648.8
10°	8875.0	6936.2	6513.6	7663.4	8101.0
12.5°	8782.3	6340.0	7462.1	8656.7	8744.0
15°	8666.3	6018.5	8234.1	8700.4	8673.7
17.5°	8568.3	6206.9	8510.8	8613.0	8593.8
20°	8431.0	6582.8	8392.7	8474.6	8467.2
22.5°	8292.6	7027.7	8280.8	8339.5	8339.5
25°	8116.9	7427.0	8135.0	8189.3	8209.6
27.5°	7924.2	7656.9	7952.9	7997.6	8033.8
30°	7733.6	7690.0	7759.2	7816.7	7859.2
32.5°	7532.4	7515.4	7569.7	7630.4	7684.6
35°	7303.5	7299.2	7384.4	7433.4	7470.7
37.5°	7088.4	7073.6	7152.3	7220.5	7249.2
40°	6830.8	6830.8	6905.3	6974.5	7004.4
42.5°	6536.9	6578.5	6636.0	6707.3	6040.8
45°	6255.9	6275.1	6378.3	5649.1	3963.7
47.5°	5985.4	6009.9	6108.0	3631.5	3730.6
50°	5622.4	5733.1	5809.8	3620.9	3840.2
52.5°	5357.4	5405.2	4877.2	3584.7	3708.2
55°	4911.3	5072.0	3117.3	3544.3	3883.8
57.5°	4530.1	4647.3	3065.2	3631.5	3842.3
60°	4084.0	4262.9	2801.1	3503.8	3100.2
62.5°	3656.0	3826.3	2924.6	2757.5	2625.4
65°	3234.4	3425.0	2842.7	2186.8	1603.3
67.5°	2772.3	2594.6	2267.7	1540.6	1621.5
70°	2311.4	1812.1	1742.9	1722.6	1590.6
72.5°	1837.6	1322.3	1157.3	1292.5	925.2
75°	1393.7	1366.0	1198.9	783.6	834.7
77.5°	966.7	985.9	642.0	764.4	634.5
80°	644.1	557.9	581.3	487.6	481.3
82.5°	446.1	455.6	382.2	370.5	375.9
85°	309.8	275.7	269.3	257.7	255.5
87.5°	103.2	120.3	111.8	101.1	107.6
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)