

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: P730723

Luminaire Tested: **HBLED-LD5-24HE-W-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730723
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-003-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24HE-W-UNV-L850
Description: 24000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25056.0 lumens
Efficiency: N/A
Efficacy: 175.2 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.31 / 1.43
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

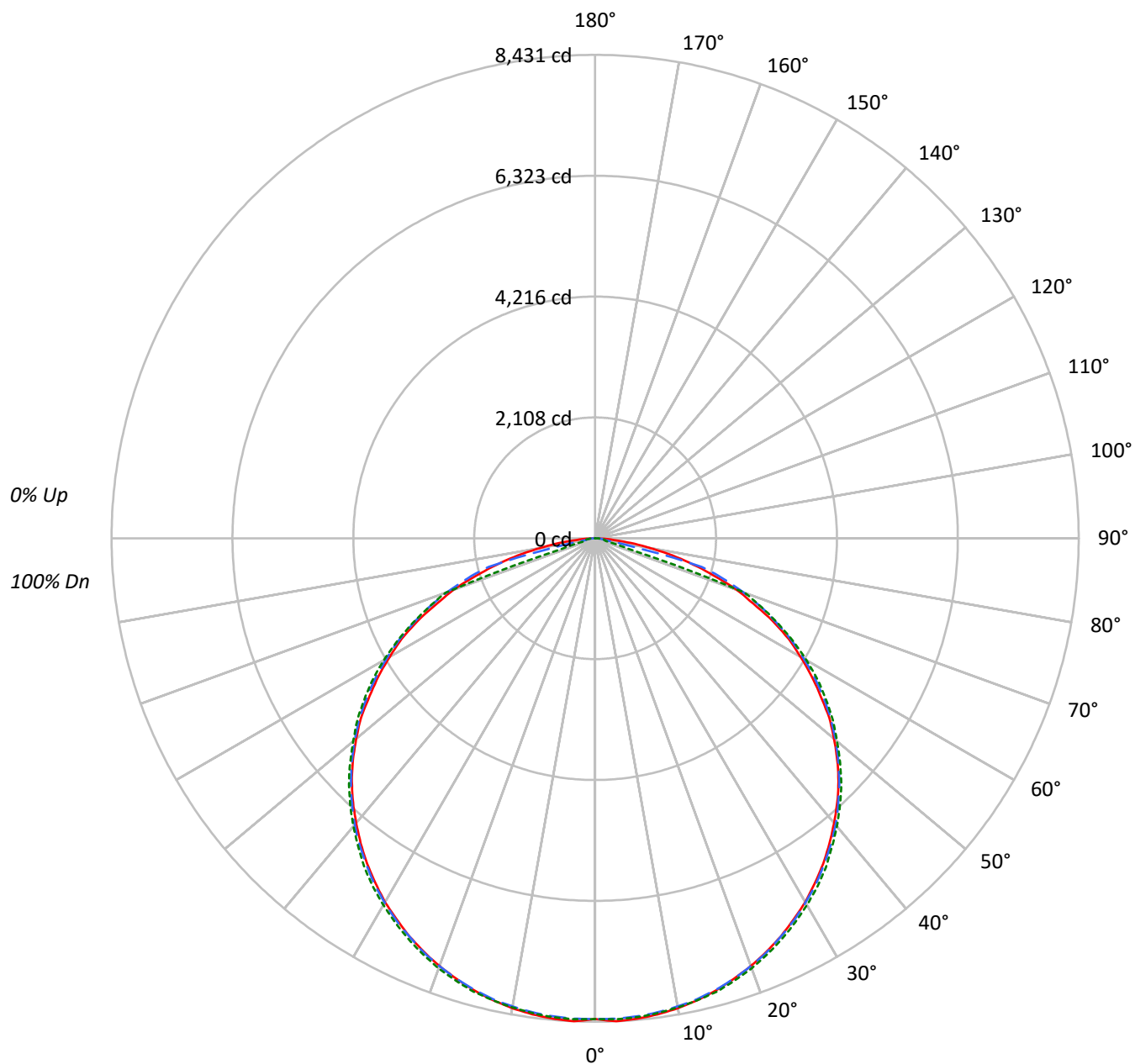
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72
3	90	80	72	65	88	78	71	64	75	69	63	72	67	62	70	65	61
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13538	13538	13538
5°	13635	13565	13589
10°	13642	13593	13621
15°	13640	13622	13684
20°	13639	13642	13713
25°	13646	13653	13736
30°	13661	13678	13769
35°	13658	13703	13817
40°	13660	13747	13822
45°	13699	13750	13861
50°	13657	13737	13826
55°	13507	13696	13844
60°	13354	13571	13739
65°	13058	13330	13430
70°	12397	12926	13085
75°	11057	11989	1445
80°	8892	1493	1581
85°	5917	1938	1973



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	796.3	3.2
10°-20°	2301.0	9.2
20°-30°	3535.4	14.1
30°-40°	4352.2	17.4
40°-50°	4639.9	18.5
50°-60°	4337.3	17.3
60°-70°	3433.6	13.7
70°-80°	1460.8	5.8
80°-90°	199.5	0.8
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°	6632.8	26.5
0°-40°	10984.9	43.8
0°-60°	19962.1	79.7
0°-90°	25056.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	25056.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8384	8384	8384	8384	8384	
5°	8412	8375	8370	8336	8384	800
15°	8160	8145	8149	8127	8186	2304
25°	7660	7650	7664	7660	7710	3532
35°	6930	6918	6952	6976	7010	4336
45°	5999	5966	6022	6046	6070	4623
55°	4798	4813	4866	4882	4918	4297
65°	3418	3448	3489	3515	3515	3363
75°	1772	1849	1922	314	232	1875
85°	319	95	105	108	106	416
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8384.5	8384.5	8384.5	8384.5	8384.5
2.5°	8431.1	8391.9	8384.5	8350.8	8395.7
5°	8412.5	8375.1	8369.5	8335.9	8384.5
7.5°	8373.2	8343.4	8339.6	8304.1	8352.7
10°	8320.9	8292.9	8291.1	8259.3	8307.9
12.5°	8250.0	8225.7	8233.2	8201.4	8250.0
15°	8160.3	8145.4	8149.1	8126.7	8186.5
17.5°	8052.0	8044.5	8052.0	8035.2	8089.3
20°	7938.1	7928.7	7939.9	7930.6	7981.0
22.5°	7805.4	7794.2	7816.6	7803.6	7850.3
25°	7659.8	7650.4	7663.5	7659.8	7710.2
27.5°	7493.5	7484.2	7512.2	7514.1	7553.3
30°	7327.3	7314.2	7336.6	7346.0	7385.2
32.5°	7129.3	7125.6	7159.2	7166.7	7207.8
35°	6929.5	6918.2	6951.9	6976.1	7009.8
37.5°	6710.9	6709.1	6744.5	6765.1	6781.9
40°	6481.2	6471.8	6522.3	6542.8	6557.8
42.5°	6247.7	6227.2	6275.7	6301.9	6318.7
45°	5999.3	5965.7	6021.7	6046.0	6070.3
47.5°	5726.6	5696.7	5750.9	5777.0	5793.8
50°	5437.1	5409.1	5468.9	5491.3	5504.3
52.5°	5145.7	5117.7	5181.2	5199.9	5231.6
55°	4798.3	4813.3	4865.6	4882.4	4917.9
57.5°	4477.1	4490.1	4540.6	4561.1	4602.2
60°	4135.3	4155.8	4202.5	4223.0	4254.8
62.5°	3804.7	3806.5	3862.6	3871.9	3896.2
65°	3418.0	3447.9	3489.0	3515.2	3515.2
67.5°	2986.6	3059.4	3130.4	3124.8	3139.7
70°	2626.1	2654.1	2738.2	2751.2	2771.8
72.5°	2174.1	2246.9	2340.3	1748.2	594.0
75°	1772.5	1849.1	1921.9	313.8	231.6
77.5°	1376.6	1436.3	638.8	179.3	175.6
80°	956.3	1051.6	160.6	164.4	170.0
82.5°	629.4	513.6	132.6	145.7	147.6
85°	319.4	95.3	104.6	108.3	106.5
87.5°	104.6	57.9	59.8	61.6	63.5
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)