

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: P730727

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730727
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-LD5-24HE-W-WG-UNV-L835
Description: 24000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND WIREGUARD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22621.0 lumens
Efficiency: N/A
Efficacy: 158.2 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

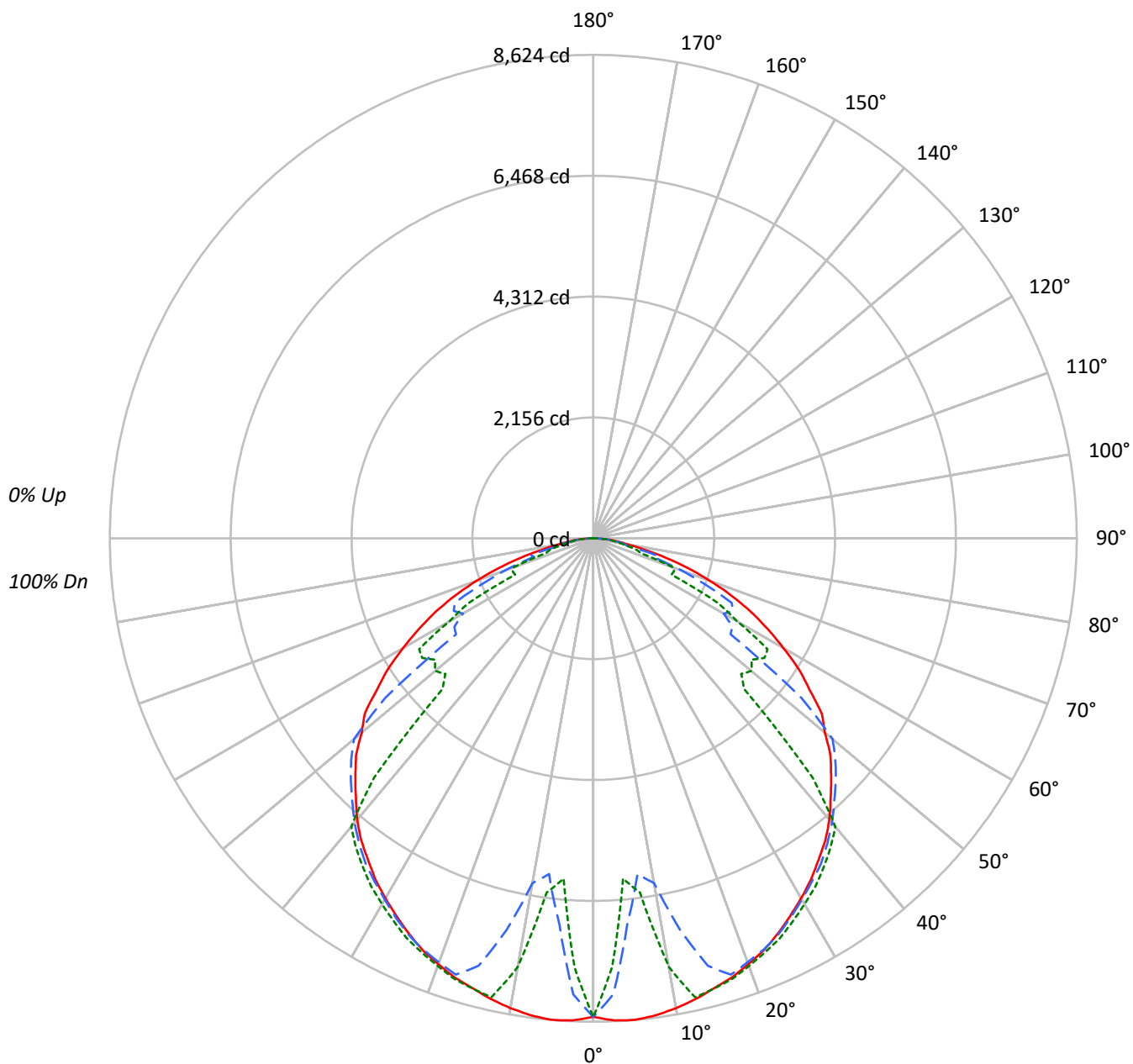
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	13786	13786	13786
5°	13978	11230	9876
10°	13954	10241	12737
15°	13892	13199	13904
20°	13892	13829	13952
25°	13868	13898	14026
30°	13827	13873	14052
35°	13805	13958	14122
40°	13807	13958	14158
45°	13699	13967	8680
50°	13544	13995	9251
55°	13258	8415	10485
60°	12647	8674	9601
65°	11850	10415	5874
70°	10464	7890	7201
75°	8337	7172	4994
80°	5743	5183	4291
85°	5504	4785	4539



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	682.8	3.0
10°-20°	2139.1	9.5
20°-30°	3519.3	15.6
30°-40°	4425.0	19.6
40°-50°	4339.8	19.2
50°-60°	3595.8	15.9
60°-70°	2536.2	11.2
70°-80°	1106.5	4.9
80°-90°	276.4	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°	6341.2	28.0
0°-40°	10766.2	47.6
0°-60°	18701.8	82.7
0°-90°	22621.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22621.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8539	8539	8539	8539	8539	
5°	8624	8027	6929	6282	6093	819
15°	8311	5772	7896	8344	8318	2350
25°	7784	7123	7802	7854	7873	3588
35°	7004	7000	7082	7129	7164	4388
45°	5999	6018	6117	5418	3801	4631
55°	4710	4864	2990	3399	3725	4214
65°	3102	3285	2726	2097	1538	3050
75°	1336	1310	1150	751	800	1433
85°	297	264	258	247	245	308
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8538.7	8538.7	8538.7	8538.7	8538.7
2.5°	8609.1	8430.5	8146.6	7789.3	7662.7
5°	8624.5	8027.1	6928.6	6282.3	6093.3
7.5°	8580.6	7295.1	6040.3	6176.0	6376.2
10°	8511.1	6651.9	6246.6	7349.2	7768.9
12.5°	8422.3	6080.1	7156.2	8301.8	8385.5
15°	8311.0	5771.8	7896.5	8343.7	8318.1
17.5°	8217.1	5952.5	8161.9	8259.9	8241.5
20°	8085.3	6312.9	8048.6	8127.2	8120.1
22.5°	7952.6	6739.6	7941.4	7997.6	7997.6
25°	7784.2	7122.6	7801.5	7853.6	7873.0
27.5°	7599.3	7343.0	7626.9	7669.8	7704.5
30°	7416.6	7374.8	7441.1	7496.3	7537.0
32.5°	7223.7	7207.3	7259.4	7317.6	7369.6
35°	7004.1	7000.0	7081.7	7128.6	7164.5
37.5°	6797.8	6783.6	6859.1	6924.5	6952.0
40°	6550.8	6550.8	6622.2	6688.6	6717.2
42.5°	6268.9	6308.8	6364.0	6432.3	5793.2
45°	5999.4	6017.8	6116.8	5417.5	3801.2
47.5°	5740.1	5763.5	5857.6	3482.6	3577.7
50°	5391.9	5498.1	5571.6	3472.5	3682.8
52.5°	5137.8	5183.6	4677.2	3437.8	3556.2
55°	4709.9	4864.1	2989.5	3399.0	3724.6
57.5°	4344.4	4456.7	2939.5	3482.6	3684.8
60°	3916.6	4088.1	2686.2	3360.2	2973.2
62.5°	3506.1	3669.5	2804.7	2644.4	2517.8
65°	3101.8	3284.6	2726.1	2097.1	1537.6
67.5°	2658.7	2488.2	2174.7	1477.4	1555.0
70°	2216.6	1737.8	1671.4	1652.0	1525.4
72.5°	1762.3	1268.1	1109.8	1239.5	887.2
75°	1336.5	1310.0	1149.7	751.4	800.5
77.5°	927.0	945.5	615.6	733.0	608.5
80°	617.7	535.1	557.4	467.6	461.5
82.5°	427.8	437.0	366.5	355.3	360.5
85°	297.1	264.4	258.3	247.1	245.0
87.5°	99.0	115.4	107.2	97.0	103.2
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)