

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: P730693

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730693
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23765)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24HE-W-AI-UNV-L850
Description: 24000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND PRISMATIC ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22099.0 lumens
Efficiency: N/A
Efficacy: 154.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

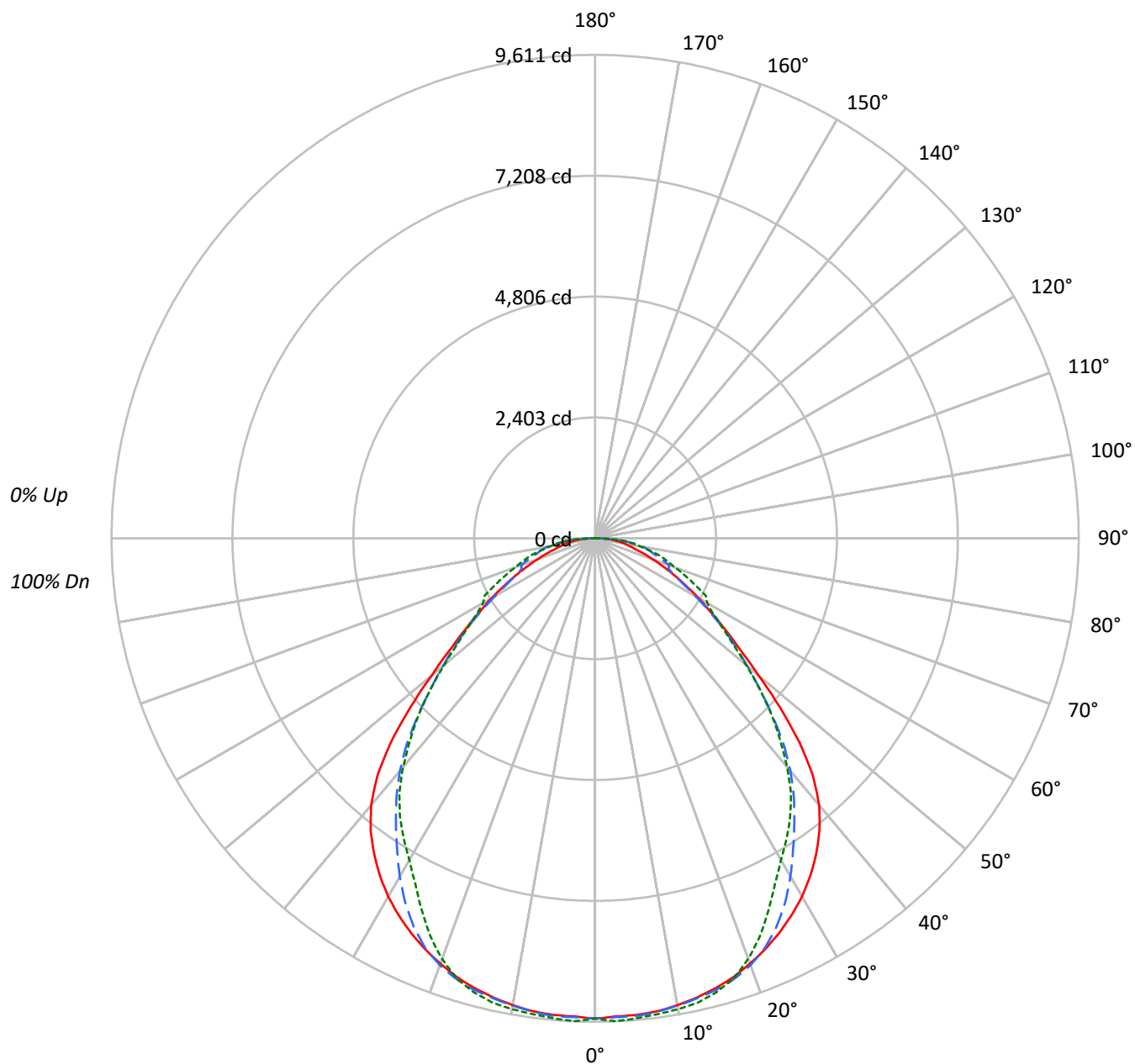
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15415	15415	15415
5°	15415	15448	15523
10°	15453	15472	15586
15°	15476	15534	15610
20°	15461	15518	15288
25°	15422	15191	14530
30°	15331	14474	13769
35°	15100	13604	13321
40°	14595	12720	12510
45°	13118	11358	11316
50°	10640	9893	9825
55°	8835	8671	8667
60°	7649	7426	8302
65°	6629	6588	8368
70°	5716	7390	7977
75°	5126	7575	8316
80°	5328	8916	8343
85°	6049	10276	9533



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	909.0	4.1
10°-20°	2625.4	11.9
20°-30°	3899.2	17.6
30°-40°	4426.7	20.0
40°-50°	3957.3	17.9
50°-60°	2736.1	12.4
60°-70°	1805.4	8.2
70°-80°	1218.1	5.5
80°-90°	521.7	2.4
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°	7433.7	33.6
0°-40°	11860.4	53.7
0°-60°	18553.8	84.0
0°-90°	22099.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22099.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9548	9548	9548	9548	9548	
5°	9511	9569	9531	9570	9578	905
15°	9259	9303	9293	9345	9339	2613
25°	8657	8739	8527	8273	8156	3989
35°	7661	7500	6902	6801	6758	4777
45°	5745	5259	4974	5012	4956	4369
55°	3138	2865	3080	3037	3079	2851
65°	1735	1541	1724	2016	2190	1732
75°	822	1034	1214	1297	1333	897
85°	326	454	555	558	515	340
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9547.5	9547.5	9547.5	9547.5	9547.5
2.5°	9515.0	9574.5	9530.2	9571.3	9611.2
5°	9510.7	9569.1	9531.2	9570.1	9577.7
7.5°	9483.6	9537.7	9493.3	9531.2	9539.9
10°	9425.2	9489.1	9437.1	9495.5	9506.4
12.5°	9349.6	9414.5	9369.0	9449.0	9453.4
15°	9258.8	9303.1	9293.4	9345.2	9338.8
17.5°	9144.2	9195.0	9187.4	9200.4	9170.1
20°	8998.2	9055.5	9031.7	8972.3	8897.7
22.5°	8841.5	8910.6	8816.7	8666.4	8561.4
25°	8656.6	8738.7	8526.9	8272.8	8156.0
27.5°	8452.2	8525.8	8173.3	7862.0	7740.9
30°	8223.1	8254.4	7763.5	7467.3	7385.1
32.5°	7958.2	7912.8	7325.7	7130.0	7082.5
35°	7660.9	7499.8	6901.9	6801.4	6758.1
37.5°	7325.7	7030.6	6483.6	6437.1	6391.6
40°	6924.7	6488.9	6034.9	6004.6	5935.4
42.5°	6406.8	5899.7	5536.4	5500.8	5439.1
45°	5745.1	5258.6	4974.3	5012.1	4955.9
47.5°	4984.0	4615.4	4434.8	4538.6	4434.8
50°	4235.8	3988.3	3938.6	4032.6	3911.5
52.5°	3622.8	3400.2	3502.9	3519.1	3446.7
55°	3138.5	2865.0	3080.2	3036.9	3079.0
57.5°	2716.9	2410.9	2675.8	2626.1	2770.9
60°	2368.7	2025.0	2299.6	2288.7	2570.9
62.5°	2027.2	1752.5	1973.0	2132.0	2479.0
65°	1735.2	1540.6	1724.4	2016.3	2190.4
67.5°	1455.2	1381.7	1577.3	1739.5	1929.9
70°	1210.8	1248.7	1565.4	1535.2	1689.8
72.5°	1005.4	1134.2	1381.7	1387.1	1496.3
75°	821.7	1033.6	1214.2	1297.4	1333.1
77.5°	683.3	937.3	1096.3	1125.5	1090.9
80°	573.0	825.9	958.9	946.0	897.3
82.5°	462.7	626.0	755.8	767.6	710.3
85°	326.5	454.1	554.7	557.9	514.6
87.5°	175.1	280.0	336.3	346.0	320.0
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)