

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: P730782

Luminaire Tested: **HBLED-LD5-24SE-W-CLI-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730782
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23766)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24SE-W-CLI-UNV-L840
Description: 24000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS
INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22694.0 lumens
Efficiency: N/A
Efficacy: 151.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

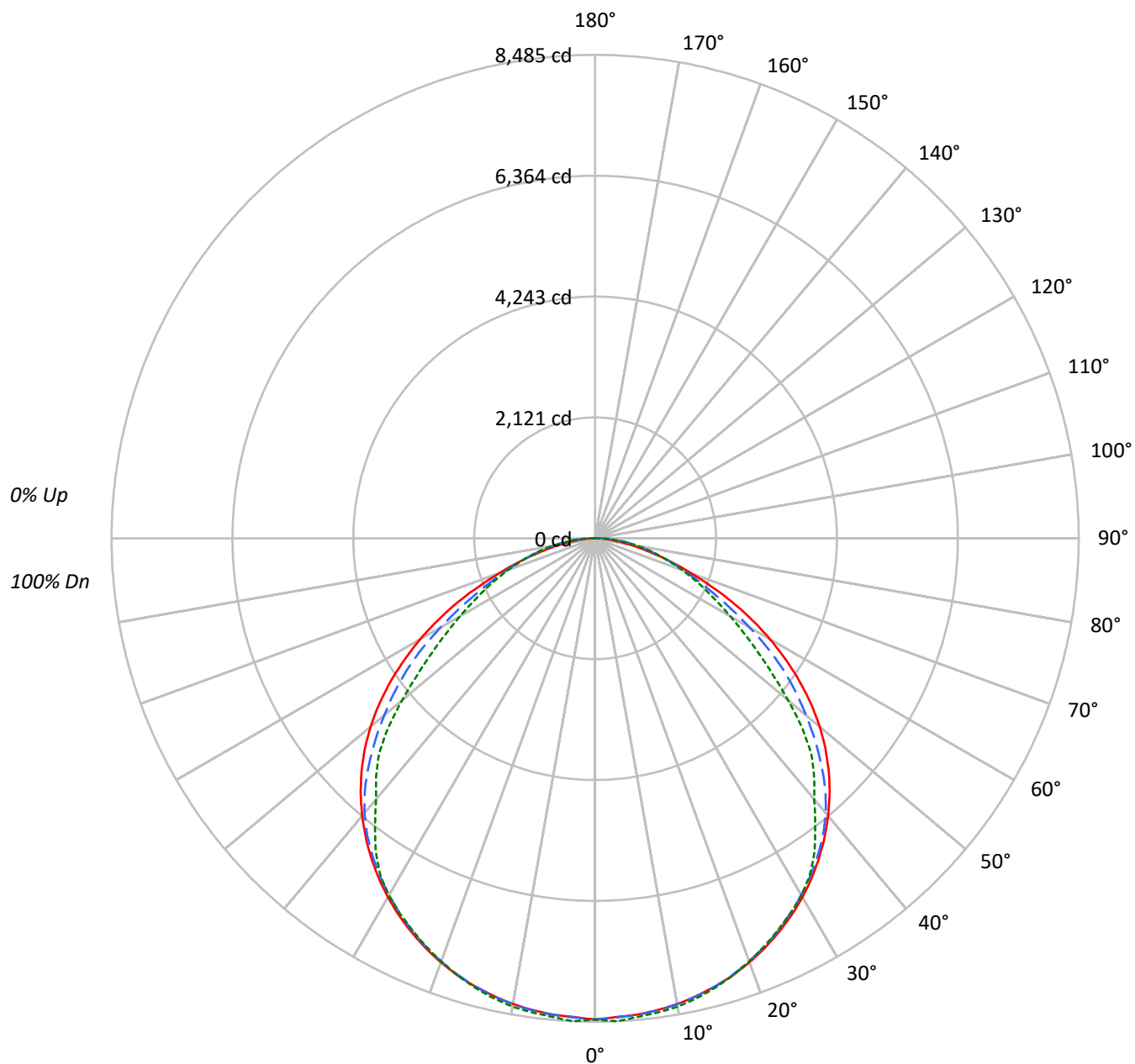
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	99	95	98	95	92	94	92	90	91	89	87
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13638	13638	13638
5°	13601	13611	13672
10°	13609	13616	13687
15°	13611	13609	13641
20°	13607	13576	13580
25°	13587	13536	13520
30°	13564	13483	13491
35°	13501	13417	13227
40°	13405	13268	12599
45°	13235	12811	12251
50°	12916	12129	11095
55°	12328	11344	9811
60°	11441	10121	8848
65°	10169	8763	8136
70°	8439	7831	7668
75°	6826	7167	7256
80°	5422	6855	6827
85°	4244	7364	7025



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	801.1	3.5
10°-20°	2304.2	10.2
20°-30°	3513.4	15.5
30°-40°	4250.7	18.7
40°-50°	4305.6	19.0
50°-60°	3558.7	15.7
60°-70°	2350.4	10.4
70°-80°	1225.6	5.4
80°-90°	384.2	1.7
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°	6618.6	29.2
0°-40°	10869.4	47.9
0°-60°	18733.7	82.5
0°-90°	22694.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22694.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8447	8447	8447	8447	8447	
5°	8392	8443	8398	8435	8436	798
15°	8143	8184	8142	8167	8161	2299
25°	7626	7657	7598	7617	7589	3517
35°	6850	6859	6807	6798	6711	4284
45°	5796	5781	5611	5436	5365	4463
55°	4380	4315	4030	3638	3485	3903
65°	2662	2585	2294	2145	2130	2629
75°	1094	1113	1149	1164	1163	1192
85°	229	295	398	394	379	278
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8446.8	8446.8	8446.8	8446.8	8446.8
2.5°	8411.4	8461.0	8419.4	8455.9	8485.3
5°	8392.0	8442.8	8398.2	8434.7	8435.7
7.5°	8354.6	8405.3	8359.6	8396.1	8395.1
10°	8300.8	8348.5	8304.9	8348.5	8348.5
12.5°	8227.8	8274.4	8231.9	8272.4	8266.3
15°	8142.7	8184.2	8141.7	8167.0	8160.9
17.5°	8042.3	8079.8	8032.1	8053.3	8041.2
20°	7919.5	7954.0	7901.3	7928.7	7903.3
22.5°	7781.6	7814.0	7760.3	7780.7	7752.2
25°	7626.5	7656.9	7598.1	7617.4	7589.0
27.5°	7459.2	7486.5	7420.6	7444.0	7421.6
30°	7275.6	7288.8	7232.1	7262.5	7236.1
32.5°	7070.8	7078.9	7029.2	7056.6	7012.0
35°	6849.7	6858.9	6807.2	6798.0	6710.8
37.5°	6613.5	6617.5	6568.9	6486.7	6342.7
40°	6360.0	6358.0	6295.1	6105.5	5977.7
42.5°	6089.2	6088.3	5977.7	5761.7	5688.7
45°	5796.2	5781.0	5610.6	5436.2	5365.2
47.5°	5481.9	5465.6	5227.3	5088.4	4927.2
50°	5142.1	5113.8	4828.8	4639.1	4417.1
52.5°	4776.1	4732.4	4442.4	4136.2	3926.3
55°	4379.6	4314.7	4029.8	3638.4	3485.2
57.5°	3966.9	3870.5	3593.7	3212.5	3087.7
60°	3543.0	3435.5	3134.3	2821.1	2739.9
62.5°	3107.0	3000.5	2693.3	2457.0	2412.4
65°	2661.8	2584.7	2293.7	2144.7	2129.5
67.5°	2205.5	2178.1	1956.0	1880.0	1873.9
70°	1787.7	1782.7	1658.9	1620.4	1624.4
72.5°	1428.8	1422.7	1404.5	1385.1	1386.2
75°	1094.2	1113.4	1148.9	1164.1	1163.1
77.5°	816.3	855.9	930.9	961.3	956.2
80°	583.1	641.9	737.2	765.6	734.2
82.5°	388.4	450.2	562.7	566.8	541.5
85°	229.1	295.1	397.5	394.5	379.2
87.5°	113.5	177.4	238.3	228.1	218.0
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)