

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: P730781

Luminaire Tested: **HBLED-LD5-24SE-W-CLI-UNV-L835**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730781
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-L835
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: 22058.0 lumens
Efficiency: N/A
Efficacy: 147.1 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

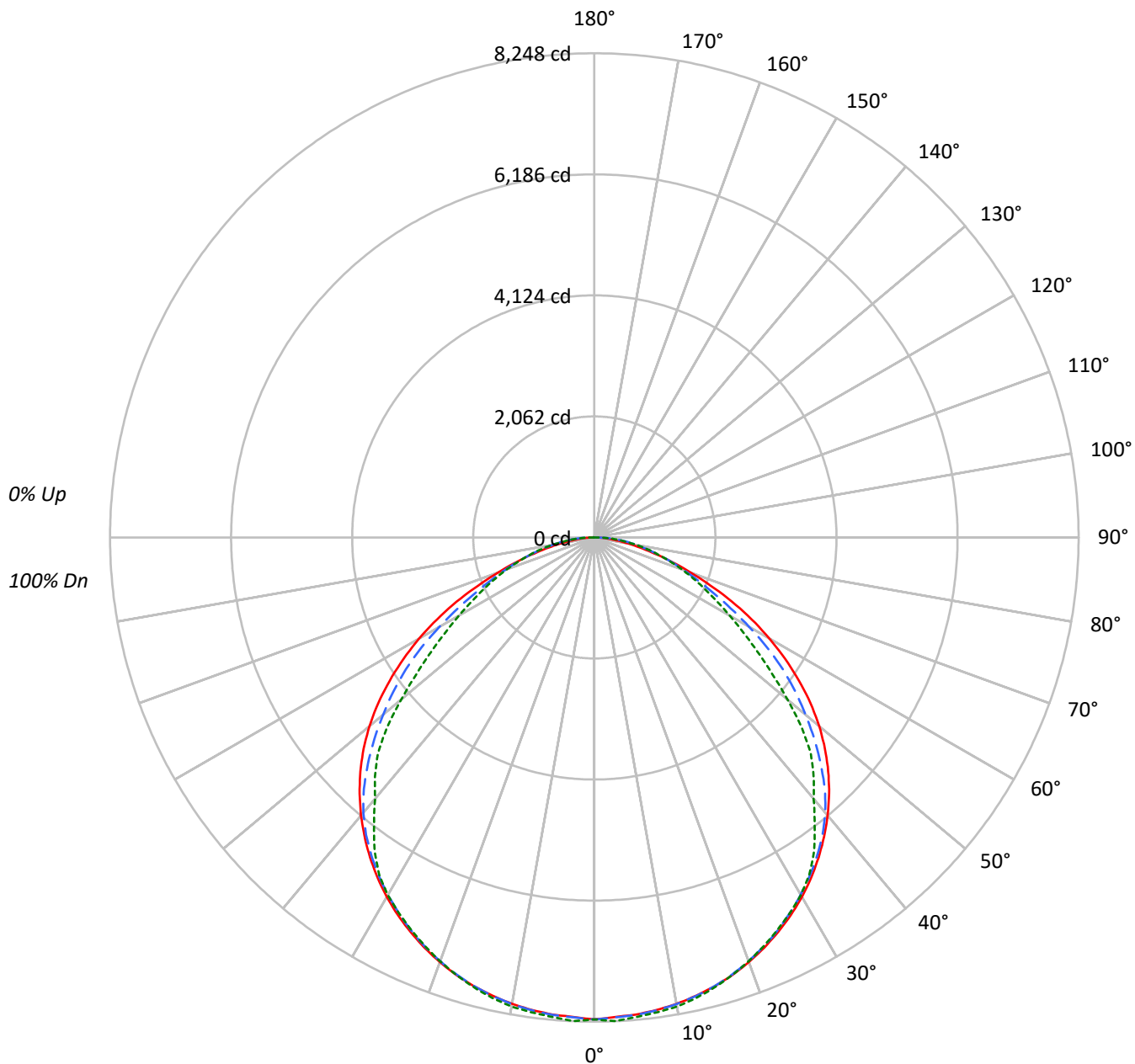
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85		
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71		
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61		
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52		
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45		
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40		
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35		
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31		
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28		
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13256	13256	13256
5°	13220	13230	13289
10°	13228	13234	13304
15°	13229	13228	13259
20°	13226	13196	13199
25°	13206	13157	13141
30°	13184	13105	13113
35°	13123	13041	12857
40°	13029	12896	12246
45°	12864	12452	11907
50°	12554	11789	10784
55°	11983	11026	9536
60°	11120	9838	8600
65°	9884	8517	7908
70°	8203	7612	7454
75°	6634	6966	7052
80°	5270	6663	6635
85°	4126	7158	6828



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	778.6	3.5
10°-20°	2239.6	10.2
20°-30°	3415.0	15.5
30°-40°	4131.6	18.7
40°-50°	4184.9	19.0
50°-60°	3459.0	15.7
60°-70°	2284.6	10.4
70°-80°	1191.3	5.4
80°-90°	373.5	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°	6433.2	29.2
0°-40°	10564.8	47.9
0°-60°	18208.7	82.5
0°-90°	22058.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22058.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8210	8210	8210	8210	8210	
5°	8157	8206	8163	8198	8199	776
15°	7914	7955	7914	7938	7932	2235
25°	7413	7442	7385	7404	7376	3418
35°	6658	6667	6616	6608	6523	4164
45°	5634	5619	5453	5284	5215	4338
55°	4257	4194	3917	3536	3388	3794
65°	2587	2512	2229	2085	2070	2555
75°	1064	1082	1117	1131	1130	1159
85°	223	287	386	383	369	270
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8210.1	8210.1	8210.1	8210.1	8210.1
2.5°	8175.7	8223.9	8183.5	8219.0	8247.5
5°	8156.9	8206.2	8162.8	8198.3	8199.3
7.5°	8120.5	8169.7	8125.3	8160.8	8159.8
10°	8068.2	8114.5	8072.1	8114.5	8114.5
12.5°	7997.2	8042.5	8001.2	8040.6	8034.6
15°	7914.5	7954.8	7913.5	7938.1	7932.2
17.5°	7816.9	7853.4	7807.0	7827.6	7815.9
20°	7697.6	7731.1	7679.9	7706.5	7681.8
22.5°	7563.5	7595.1	7542.8	7562.6	7534.9
25°	7412.8	7442.4	7385.2	7403.9	7376.3
27.5°	7250.1	7276.7	7212.6	7235.4	7213.6
30°	7071.7	7084.6	7029.4	7059.0	7033.3
32.5°	6872.6	6880.6	6832.2	6858.8	6815.5
35°	6657.7	6666.6	6616.4	6607.5	6522.8
37.5°	6428.1	6432.1	6384.8	6304.9	6165.0
40°	6181.8	6179.8	6118.7	5934.3	5810.1
42.5°	5918.5	5917.6	5810.1	5600.2	5529.3
45°	5633.7	5619.0	5453.3	5283.8	5214.8
47.5°	5328.2	5312.4	5080.8	4945.8	4789.1
50°	4998.0	4970.4	4693.4	4509.1	4293.3
52.5°	4642.2	4599.8	4317.9	4020.3	3816.3
55°	4256.8	4193.7	3916.8	3536.4	3387.6
57.5°	3855.7	3762.1	3493.0	3122.4	3001.2
60°	3443.7	3339.2	3046.5	2742.0	2663.1
62.5°	3019.9	2916.4	2617.8	2388.2	2344.7
65°	2587.2	2512.3	2229.4	2084.6	2069.8
67.5°	2143.7	2117.1	1901.2	1827.3	1821.4
70°	1737.6	1732.7	1612.4	1575.0	1578.9
72.5°	1388.7	1382.8	1365.1	1346.3	1347.3
75°	1063.5	1082.2	1116.7	1131.4	1130.5
77.5°	793.4	831.9	904.8	934.3	929.4
80°	566.8	623.9	716.6	744.2	713.6
82.5°	377.5	437.6	547.0	550.9	526.3
85°	222.7	286.8	386.4	383.4	368.6
87.5°	110.4	172.5	231.6	221.7	211.9
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)