

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: P730783

Luminaire Tested: **HBLED-LD5-24SE-W-CLI-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730783
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-L850
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: 23139.0 lumens
Efficiency: N/A
Efficacy: 154.3 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

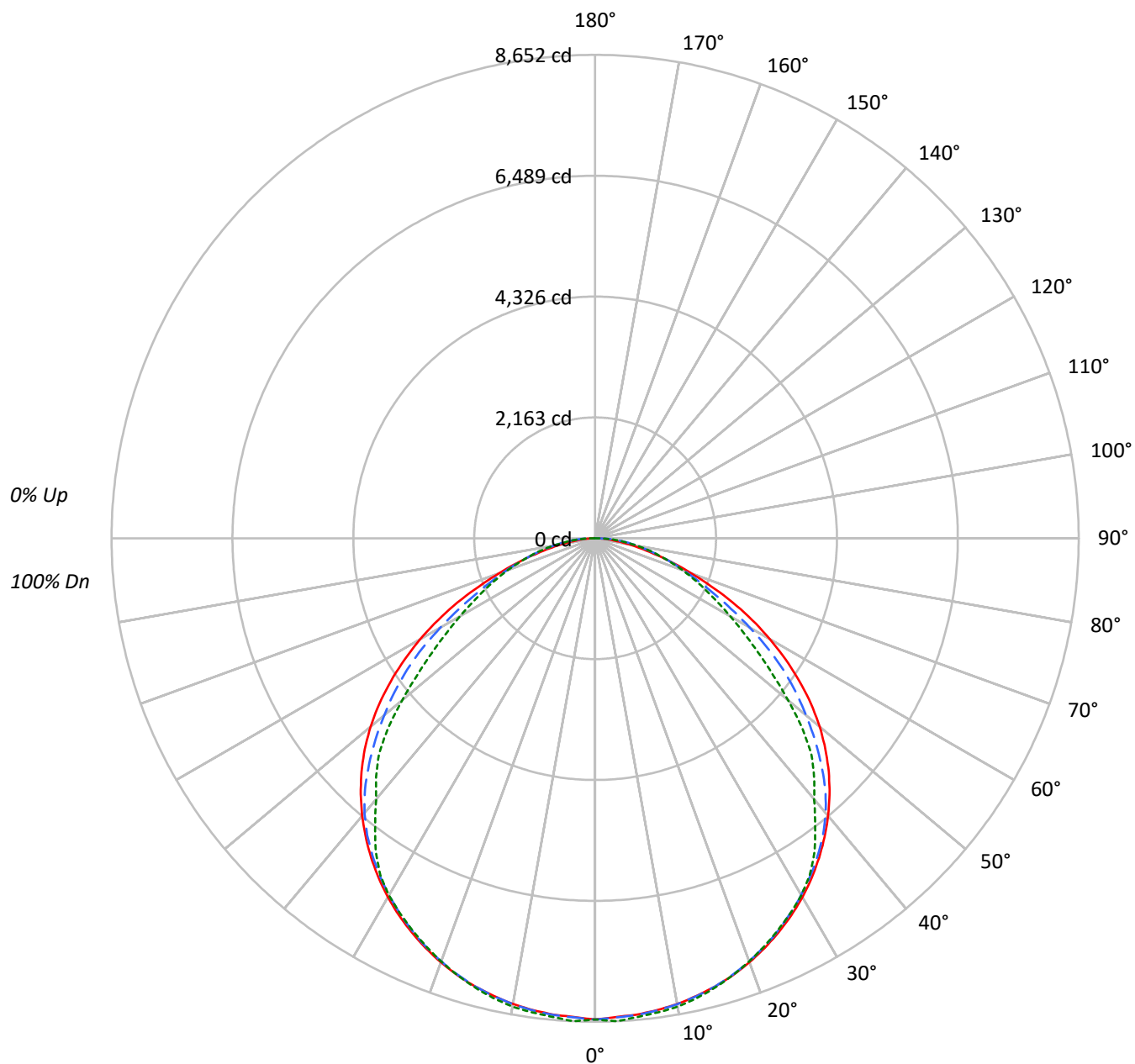
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	13905	13905	13905
5°	13868	13878	13940
10°	13876	13883	13956
15°	13878	13876	13909
20°	13874	13842	13846
25°	13853	13801	13785
30°	13830	13748	13755
35°	13766	13680	13487
40°	13668	13528	12846
45°	13494	13062	12491
50°	13170	12367	11313
55°	12570	11566	10003
60°	11665	10320	9021
65°	10369	8935	8295
70°	8605	7985	7819
75°	6959	7308	7398
80°	5528	6989	6961
85°	4328	7508	7162



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	816.8	3.5
10°-20°	2349.3	10.2
20°-30°	3582.3	15.5
30°-40°	4334.1	18.7
40°-50°	4390.1	19.0
50°-60°	3628.5	15.7
60°-70°	2396.5	10.4
70°-80°	1249.7	5.4
80°-90°	391.8	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°	6748.4	29.2
0°-40°	11082.5	47.9
0°-60°	19101.1	82.5
0°-90°	23139.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23139.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8612	8612	8612	8612	8612	
5°	8557	8608	8563	8600	8601	814
15°	8302	8345	8301	8327	8321	2344
25°	7776	7807	7747	7767	7738	3586
35°	6984	6993	6941	6931	6842	4368
45°	5910	5894	5721	5543	5470	4551
55°	4465	4399	4109	3710	3554	3980
65°	2714	2635	2339	2187	2171	2681
75°	1116	1135	1171	1187	1186	1215
85°	234	301	405	402	387	284
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8612.4	8612.4	8612.4	8612.4	8612.4
2.5°	8576.3	8626.9	8584.5	8621.8	8651.7
5°	8556.6	8608.4	8562.8	8600.1	8601.1
7.5°	8518.4	8570.1	8523.5	8560.8	8559.7
10°	8463.6	8512.2	8467.7	8512.2	8512.2
12.5°	8389.2	8436.7	8393.3	8434.6	8428.4
15°	8302.3	8344.7	8301.3	8327.1	8320.9
17.5°	8200.0	8238.2	8189.6	8211.3	8198.9
20°	8074.8	8110.0	8056.3	8084.2	8058.2
22.5°	7934.2	7967.3	7912.5	7933.2	7904.2
25°	7776.1	7807.1	7747.1	7766.7	7737.8
27.5°	7605.4	7633.3	7566.1	7590.0	7567.1
30°	7418.3	7431.8	7373.9	7404.9	7378.0
32.5°	7209.4	7217.7	7167.0	7194.9	7149.5
35°	6984.0	6993.4	6940.7	6931.3	6842.4
37.5°	6743.1	6747.3	6697.7	6613.9	6467.1
40°	6484.7	6482.7	6418.5	6225.2	6094.9
42.5°	6208.6	6207.6	6094.9	5874.6	5800.3
45°	5909.8	5894.3	5720.6	5542.8	5470.4
47.5°	5589.4	5572.8	5329.8	5188.2	5023.8
50°	5243.0	5214.0	4923.5	4730.1	4503.7
52.5°	4869.7	4825.2	4529.6	4217.3	4003.3
55°	4465.4	4399.3	4108.8	3709.7	3553.6
57.5°	4044.7	3946.4	3664.2	3275.5	3148.3
60°	3612.5	3502.9	3195.8	2876.4	2793.6
62.5°	3167.9	3059.4	2746.1	2505.2	2459.7
65°	2714.0	2635.4	2338.7	2186.7	2171.3
67.5°	2248.8	2220.8	1994.4	1916.9	1910.7
70°	1822.8	1817.6	1691.5	1652.1	1656.3
72.5°	1456.8	1450.6	1432.0	1412.3	1413.3
75°	1115.6	1135.2	1171.4	1186.9	1185.9
77.5°	832.3	872.7	949.1	980.1	974.9
80°	594.5	654.5	751.7	780.6	748.6
82.5°	396.0	459.0	573.8	577.9	552.1
85°	233.6	300.8	405.3	402.2	386.6
87.5°	115.8	180.9	243.0	232.6	222.3
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)