

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: P730757

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730757
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23761)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24SE-W-A-UNV-L835
Description: 24000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND PRISMATIC ACRYLIC LENS & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20871.0 lumens
Efficiency: N/A
Efficacy: 139.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

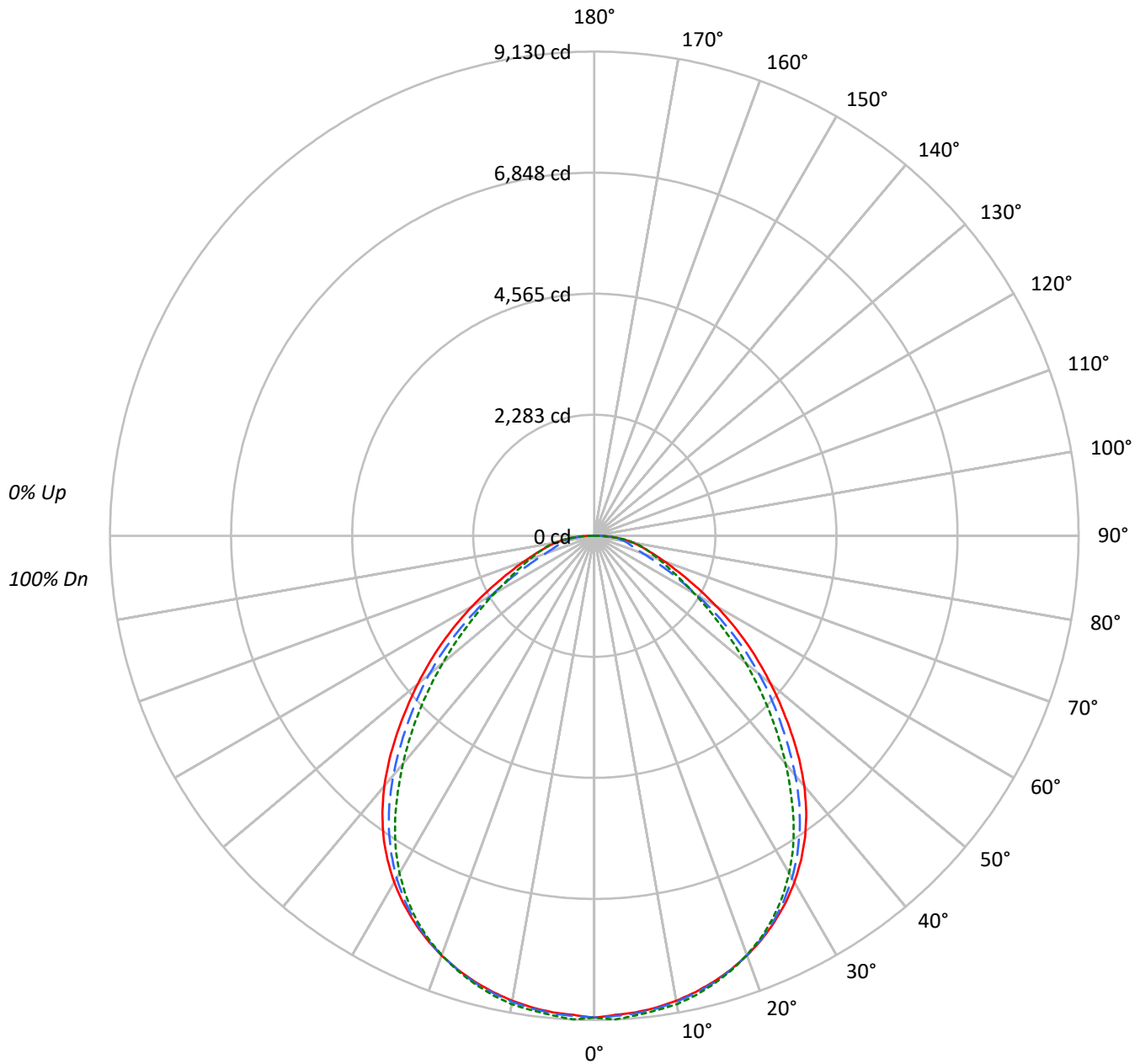
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73		
3	93	83	75	70	90	81	75	69	79	73	68	76	71	67	73	69	65	63		
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55		
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49		
6	73	61	52	46	72	60	52	46	58	51	46	56	50	45	55	49	45	43		
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38		
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35		
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31		
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14669	14669	14669
5°	14617	14651	14710
10°	14597	14630	14704
15°	14548	14577	14611
20°	14472	14461	14451
25°	14315	14266	14185
30°	14068	13898	13695
35°	13659	13315	12905
40°	12979	12422	11826
45°	11991	11321	10636
50°	10900	10195	9356
55°	9801	8826	8088
60°	8576	7213	7018
65°	7395	5672	6334
70°	6593	4629	6104
75°	6316	4519	6379
80°	6831	5345	7106
85°	7669	6436	7745



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	861.1	4.1
10°-20°	2464.3	11.8
20°-30°	3686.4	17.7
30°-40°	4205.9	20.2
40°-50°	3828.6	18.3
50°-60°	2811.3	13.5
60°-70°	1659.9	8.0
70°-80°	951.3	4.6
80°-90°	402.2	1.9
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°	7011.9	33.6
0°-40°	11217.8	53.7
0°-60°	17857.6	85.6
0°-90°	20871.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20871.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9086	9086	9086	9086	9086	
5°	9019	9075	9039	9075	9076	857
15°	8703	8751	8721	8751	8741	2456
25°	8035	8064	8008	8004	7962	3699
35°	6930	6896	6756	6640	6548	4317
45°	5251	5221	4958	4736	4658	4047
55°	3482	3321	3135	2908	2873	3114
65°	1936	1690	1485	1588	1658	1948
75°	1012	868	724	945	1022	1091
85°	414	382	347	410	418	433
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9085.5	9085.5	9085.5	9085.5	9085.5
2.5°	9043.4	9095.7	9062.9	9098.8	9129.5
5°	9018.9	9075.3	9039.4	9075.3	9076.3
7.5°	8973.8	9026.0	8991.2	9030.2	9026.0
10°	8903.1	8955.4	8923.6	8965.6	8968.7
12.5°	8812.9	8863.1	8830.4	8878.6	8870.3
15°	8703.3	8751.4	8720.7	8751.4	8741.2
17.5°	8574.2	8618.3	8578.3	8612.1	8594.7
20°	8422.5	8459.4	8416.4	8448.1	8410.3
22.5°	8241.2	8274.0	8228.9	8246.3	8207.3
25°	8035.2	8063.9	8007.6	8004.5	7962.5
27.5°	7805.7	7821.1	7749.3	7724.7	7676.6
30°	7545.5	7549.6	7454.3	7408.2	7345.6
32.5°	7253.4	7243.2	7121.2	7052.6	6975.7
35°	6929.7	6895.8	6755.5	6639.7	6547.5
37.5°	6563.9	6510.6	6342.6	6171.4	6083.3
40°	6158.1	6095.6	5893.8	5681.6	5610.9
42.5°	5716.5	5663.2	5425.5	5204.2	5134.5
45°	5251.3	5220.6	4958.2	4735.9	4658.0
47.5°	4786.1	4763.6	4507.4	4281.0	4186.7
50°	4339.4	4290.2	4058.6	3810.6	3724.6
52.5°	3905.9	3805.5	3601.6	3347.5	3284.0
55°	3481.7	3320.9	3135.4	2908.0	2873.1
57.5°	3061.6	2853.6	2673.3	2503.2	2502.2
60°	2655.9	2418.2	2233.7	2144.5	2173.3
62.5°	2275.7	2031.8	1832.1	1838.2	1890.5
65°	1935.6	1689.6	1484.7	1588.2	1657.9
67.5°	1643.5	1408.9	1200.9	1393.5	1460.1
70°	1396.6	1184.5	980.6	1221.3	1293.1
72.5°	1188.6	1010.3	826.9	1077.9	1150.7
75°	1012.4	867.8	724.4	944.7	1022.5
77.5°	868.9	740.8	649.7	817.6	898.6
80°	734.7	622.0	574.8	694.7	764.3
82.5°	582.0	504.2	476.5	564.6	600.4
85°	414.0	382.2	347.4	409.8	418.1
87.5°	227.5	235.7	194.6	235.7	236.7
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)