

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: P730769

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730769
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23762)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24SE-W-CL-UNV-L835
Description: 24000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS
& DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21417.0 lumens
Efficiency: N/A
Efficacy: 142.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

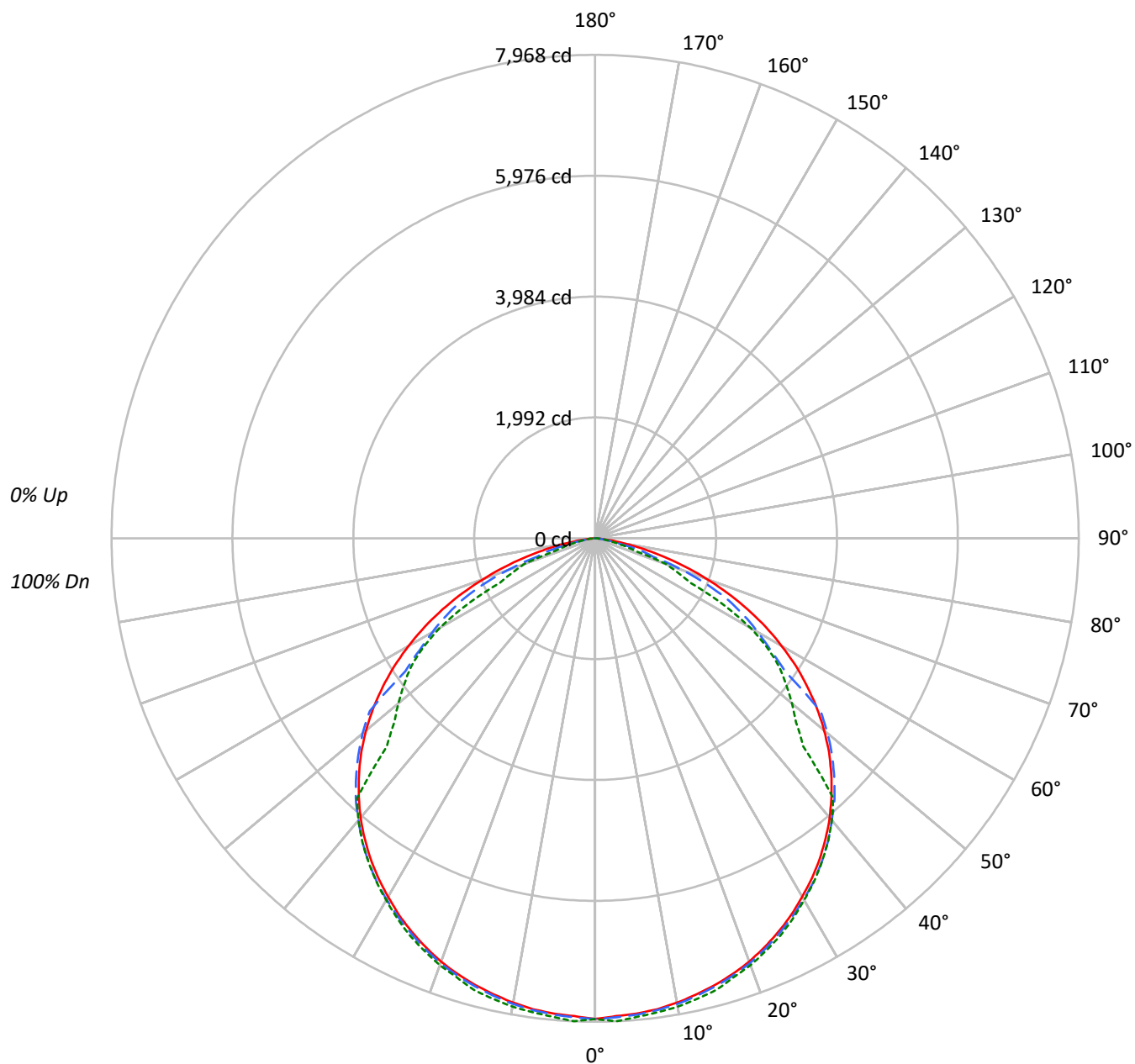
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62		
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53		
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46		
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40		
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36		
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32		
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29		
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12791	12791	12791
5°	12744	12773	12835
10°	12743	12779	12854
15°	12742	12781	12884
20°	12758	12806	12866
25°	12744	12792	12869
30°	12719	12813	12842
35°	12714	12830	12839
40°	12674	12786	12786
45°	12565	12717	11081
50°	12371	12558	10632
55°	12020	10749	10443
60°	11456	9992	9541
65°	10595	9276	6607
70°	9225	7218	5888
75°	7287	4844	3165
80°	4690	2313	1973
85°	1930	1412	1554



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	751.5	3.5
10°-20°	2166.0	10.1
20°-30°	3320.8	15.5
30°-40°	4070.2	19.0
40°-50°	4184.5	19.5
50°-60°	3571.2	16.7
60°-70°	2361.0	11.0
70°-80°	874.7	4.1
80°-90°	117.0	0.5
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°	6238.3	29.1
0°-40°	10308.5	48.1
0°-60°	18064.3	84.3
0°-90°	21417.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21417.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7922	7922	7922	7922	7922	
5°	7863	7918	7881	7911	7919	748
15°	7623	7669	7646	7704	7708	2153
25°	7153	7191	7180	7245	7224	3298
35°	6450	6494	6509	6550	6514	4035
45°	5503	5558	5570	5561	4853	4241
55°	4270	4348	3819	3708	3710	3810
65°	2773	2796	2428	1997	1730	2734
75°	1168	1023	776	522	507	1253
85°	104	74	76	83	84	172
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7922.1	7922.1	7922.1	7922.1	7922.1
2.5°	7883.5	7932.7	7903.7	7940.4	7968.3
5°	7863.2	7918.2	7880.6	7911.4	7919.2
7.5°	7828.5	7879.6	7844.9	7885.4	7879.6
10°	7772.6	7818.8	7794.7	7837.2	7840.0
12.5°	7701.2	7747.4	7725.3	7777.3	7776.4
15°	7623.0	7669.4	7646.1	7704.1	7708.0
17.5°	7531.4	7573.9	7556.5	7609.6	7588.3
20°	7425.3	7461.9	7453.2	7503.4	7488.0
22.5°	7295.0	7332.7	7324.1	7381.9	7358.7
25°	7153.3	7190.9	7180.3	7244.9	7223.7
27.5°	7000.0	7035.6	7034.6	7095.5	7062.7
30°	6822.4	6869.7	6872.6	6926.6	6888.0
32.5°	6646.9	6691.2	6703.8	6743.4	6710.6
35°	6450.2	6494.5	6509.0	6549.5	6513.8
37.5°	6237.9	6275.5	6301.5	6331.4	6303.5
40°	6013.1	6046.9	6066.3	6102.8	6066.3
42.5°	5762.4	5810.7	5837.6	5863.7	5803.9
45°	5502.9	5557.8	5569.5	5560.8	4852.8
47.5°	5228.0	5287.8	5294.6	4617.5	4487.2
50°	4925.1	5000.4	4999.4	4267.2	4232.6
52.5°	4609.7	4682.1	4679.2	3993.3	3970.2
55°	4270.1	4348.3	3818.7	3707.8	3709.8
57.5°	3923.9	3979.8	3426.2	3431.0	3367.3
60°	3547.7	3600.7	3094.4	3064.5	2954.5
62.5°	3170.6	3192.8	2773.2	2627.5	2418.2
65°	2773.2	2796.3	2427.9	1996.7	1729.5
67.5°	2365.2	2388.3	2015.0	1485.5	1465.1
70°	1954.2	1765.2	1528.9	1237.6	1247.2
72.5°	1549.1	1356.2	999.3	958.8	692.5
75°	1168.1	1023.4	776.5	521.9	507.3
77.5°	813.2	705.1	415.7	355.9	332.8
80°	504.4	354.0	248.8	220.9	212.2
82.5°	255.6	203.6	135.1	135.1	135.1
85°	104.2	74.3	76.2	82.9	83.9
87.5°	22.2	29.9	36.7	37.6	36.7
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)