

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: P730795

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730795
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-003-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24SE-W-UNV-L850
Description: 24000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24907.0 lumens
Efficiency: N/A
Efficacy: 166.0 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.31 / 1.43
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

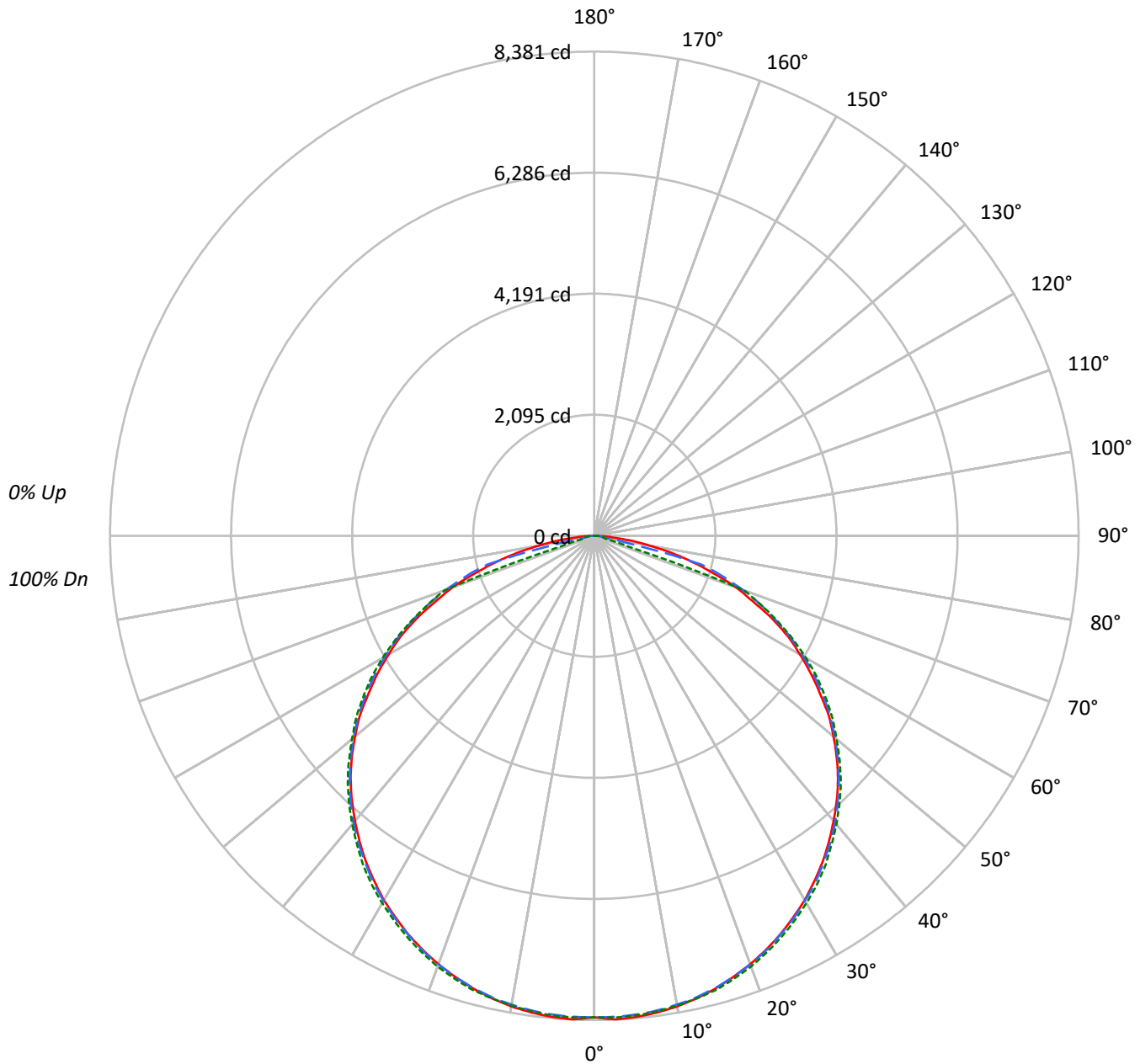
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85		
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70		
3	90	80	72	65	88	78	71	64	75	69	63	72	67	62	70	65	61	59		
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50		
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43		
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37		
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33		
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29		
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26		
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13457	13457	13457
5°	13553	13484	13508
10°	13561	13512	13540
15°	13559	13541	13603
20°	13558	13561	13632
25°	13565	13571	13654
30°	13579	13597	13687
35°	13577	13621	13734
40°	13579	13665	13740
45°	13617	13668	13778
50°	13576	13655	13744
55°	13427	13615	13761
60°	13274	13490	13658
65°	12981	13250	13350
70°	12323	12849	13007
75°	10992	11918	1436
80°	8839	1485	1571
85°	5882	1927	1960



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	791.6	3.2
10°-20°	2287.3	9.2
20°-30°	3514.4	14.1
30°-40°	4326.3	17.4
40°-50°	4612.3	18.5
50°-60°	4311.5	17.3
60°-70°	3413.1	13.7
70°-80°	1452.1	5.8
80°-90°	198.3	0.8
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°	6593.3	26.5
0°-40°	10919.6	43.8
0°-60°	19843.4	79.7
0°-90°	24907.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	24907.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8335	8335	8335	8335	8335	
5°	8362	8325	8320	8286	8335	795
15°	8112	8097	8101	8078	8138	2290
25°	7614	7605	7618	7614	7664	3511
35°	6888	6877	6910	6935	6968	4310
45°	5964	5930	5986	6010	6034	4595
55°	4770	4785	4837	4853	4889	4271
65°	3398	3427	3468	3494	3494	3343
75°	1762	1838	1910	312	230	1864
85°	318	95	104	108	106	414
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8334.6	8334.6	8334.6	8334.6	8334.6
2.5°	8381.0	8342.0	8334.6	8301.2	8345.7
5°	8362.4	8325.3	8319.7	8286.3	8334.6
7.5°	8323.5	8293.7	8290.0	8254.8	8303.0
10°	8271.5	8243.6	8241.8	8210.2	8258.5
12.5°	8200.9	8176.8	8184.2	8152.6	8200.9
15°	8111.8	8096.9	8100.7	8078.4	8137.8
17.5°	8004.1	7996.7	8004.1	7987.4	8041.2
20°	7890.9	7881.6	7892.7	7883.4	7933.6
22.5°	7759.0	7747.9	7770.2	7757.2	7803.6
25°	7614.2	7604.9	7617.9	7614.2	7664.3
27.5°	7449.0	7439.7	7467.5	7469.4	7508.4
30°	7283.7	7270.7	7293.0	7302.3	7341.3
32.5°	7086.9	7083.2	7116.6	7124.0	7164.9
35°	6888.2	6877.1	6910.5	6934.7	6968.1
37.5°	6671.0	6669.2	6704.4	6724.9	6741.6
40°	6442.6	6433.4	6483.5	6503.9	6518.8
42.5°	6210.6	6190.1	6238.4	6264.4	6281.1
45°	5963.6	5930.2	5985.9	6010.0	6034.2
47.5°	5692.6	5662.8	5716.7	5742.7	5759.4
50°	5404.8	5376.9	5436.3	5458.6	5471.6
52.5°	5115.1	5087.3	5150.4	5169.0	5200.5
55°	4769.8	4784.6	4836.6	4853.3	4888.6
57.5°	4450.4	4463.4	4513.6	4534.0	4574.8
60°	4110.7	4131.1	4177.5	4197.9	4229.5
62.5°	3782.0	3783.9	3839.6	3848.9	3873.0
65°	3397.7	3427.4	3468.3	3494.3	3494.3
67.5°	2968.8	3041.2	3111.8	3106.2	3121.1
70°	2610.5	2638.3	2721.9	2734.9	2755.3
72.5°	2161.2	2233.6	2326.4	1737.8	590.4
75°	1762.0	1838.1	1910.5	311.9	230.2
77.5°	1368.4	1427.8	635.0	178.2	174.5
80°	950.6	1045.3	159.7	163.4	169.0
82.5°	625.7	510.6	131.8	144.8	146.7
85°	317.5	94.7	104.0	107.7	105.8
87.5°	104.0	57.6	59.4	61.3	63.1
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)