

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: P730759

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730759
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-L850
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: 21893.0 lumens
Efficiency: N/A
Efficacy: 146.0 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

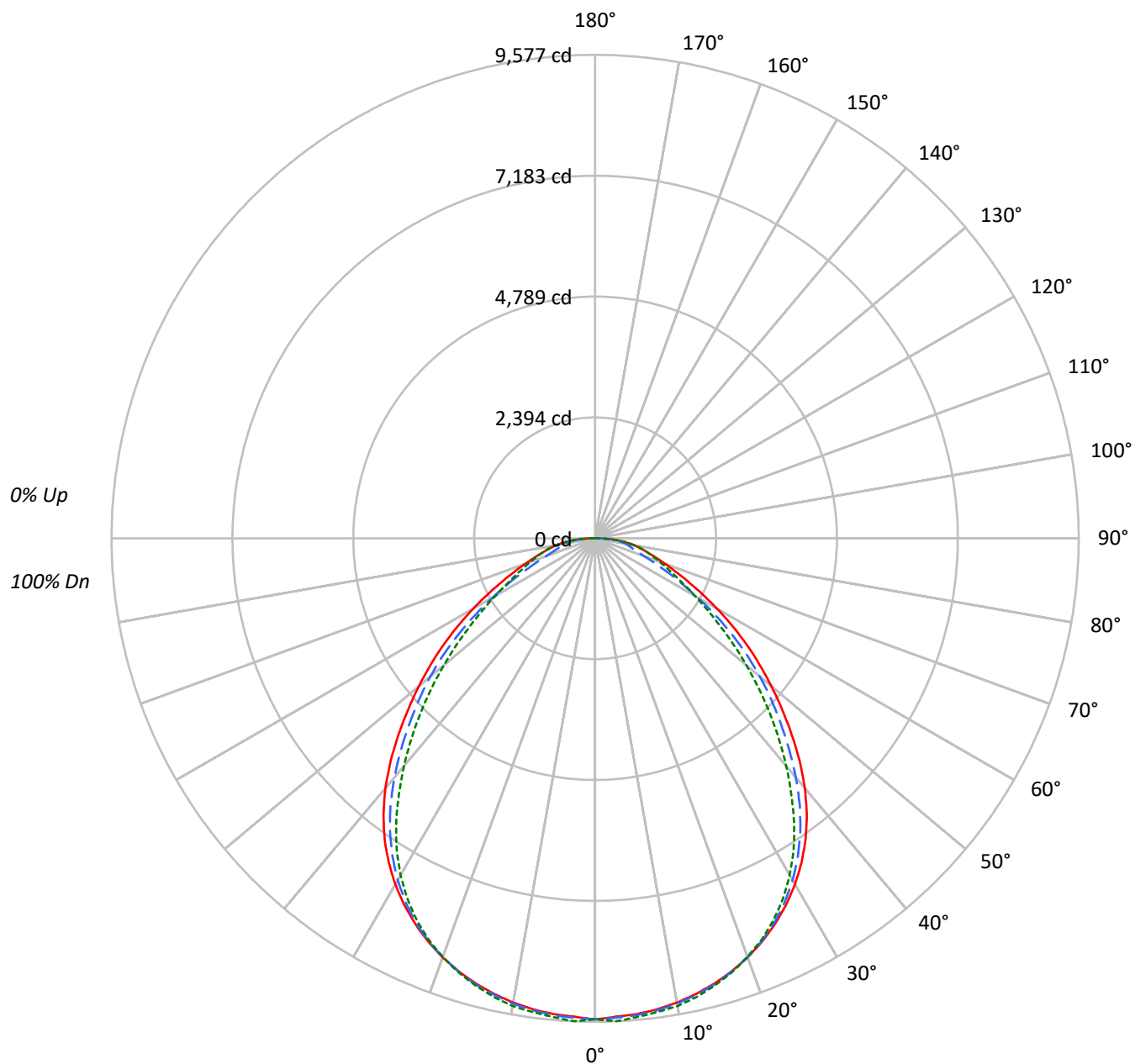
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	15388	15388	15388
5°	15333	15368	15431
10°	15311	15347	15424
15°	15260	15291	15327
20°	15180	15169	15158
25°	15016	14964	14880
30°	14756	14578	14365
35°	14328	13967	13537
40°	13615	13031	12405
45°	12578	11876	11157
50°	11434	10694	9814
55°	10281	9258	8484
60°	8996	7566	7362
65°	7757	5950	6644
70°	6916	4856	6403
75°	6624	4740	6691
80°	7166	5607	7455
85°	8046	6751	8123



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	903.2	4.1
10°-20°	2585.0	11.8
20°-30°	3866.9	17.7
30°-40°	4411.9	20.2
40°-50°	4016.0	18.3
50°-60°	2948.9	13.5
60°-70°	1741.2	8.0
70°-80°	997.9	4.6
80°-90°	421.9	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°	7355.2	33.6
0°-40°	11767.1	53.7
0°-60°	18732.0	85.6
0°-90°	21893.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21893.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9530	9530	9530	9530	9530	
5°	9461	9520	9482	9520	9521	899
15°	9130	9180	9148	9180	9169	2576
25°	8429	8459	8400	8396	8352	3880
35°	7269	7234	7086	6965	6868	4529
45°	5508	5476	5201	4968	4886	4245
55°	3652	3484	3289	3050	3014	3266
65°	2030	1772	1557	1666	1739	2043
75°	1062	910	760	991	1073	1145
85°	434	401	364	430	438	454
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9530.3	9530.3	9530.3	9530.3	9530.3
2.5°	9486.3	9541.1	9506.7	9544.3	9576.6
5°	9460.6	9519.7	9482.0	9519.7	9520.7
7.5°	9413.3	9468.0	9431.5	9472.4	9468.0
10°	9339.0	9393.9	9360.6	9404.7	9407.9
12.5°	9244.5	9297.1	9262.8	9313.3	9304.7
15°	9129.5	9180.0	9147.7	9180.0	9169.3
17.5°	8994.0	9040.3	8998.4	9033.9	9015.6
20°	8835.0	8873.6	8828.5	8861.8	8822.1
22.5°	8644.8	8679.1	8631.8	8650.1	8609.2
25°	8428.7	8458.8	8399.7	8396.4	8352.4
27.5°	8187.9	8204.1	8128.8	8103.0	8052.5
30°	7915.0	7919.2	7819.3	7771.0	7705.3
32.5°	7608.6	7597.9	7469.9	7398.0	7317.3
35°	7269.0	7233.5	7086.3	6964.8	6868.1
37.5°	6885.3	6829.4	6653.1	6473.6	6381.1
40°	6459.6	6394.1	6182.4	5959.8	5885.7
42.5°	5996.4	5940.5	5691.2	5459.0	5385.9
45°	5508.5	5476.2	5201.0	4967.8	4886.1
47.5°	5020.5	4996.8	4728.2	4490.6	4391.7
50°	4551.9	4500.2	4257.4	3997.2	3907.0
52.5°	4097.2	3991.8	3778.0	3511.4	3444.8
55°	3652.2	3483.5	3289.0	3050.4	3013.8
57.5°	3211.5	2993.3	2804.2	2625.7	2624.7
60°	2786.0	2536.6	2343.1	2249.5	2279.7
62.5°	2387.1	2131.3	1921.8	1928.2	1983.1
65°	2030.3	1772.3	1557.4	1666.0	1739.1
67.5°	1724.0	1477.9	1259.7	1461.8	1531.6
70°	1465.0	1242.5	1028.6	1281.1	1356.4
72.5°	1246.8	1059.8	867.4	1130.7	1207.0
75°	1061.9	910.3	759.9	991.0	1072.6
77.5°	911.5	777.1	681.5	857.7	942.6
80°	770.7	652.4	603.0	728.8	801.8
82.5°	610.4	528.8	499.8	592.2	629.8
85°	434.3	400.9	364.4	429.9	438.5
87.5°	238.6	247.2	204.2	247.2	248.2
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)