

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: P730754

Luminaire Tested: **HBLED-LD5-24SE-W-A-UNV-L735**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730754
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-L735
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: 21833.0 lumens
Efficiency: N/A
Efficacy: 145.6 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

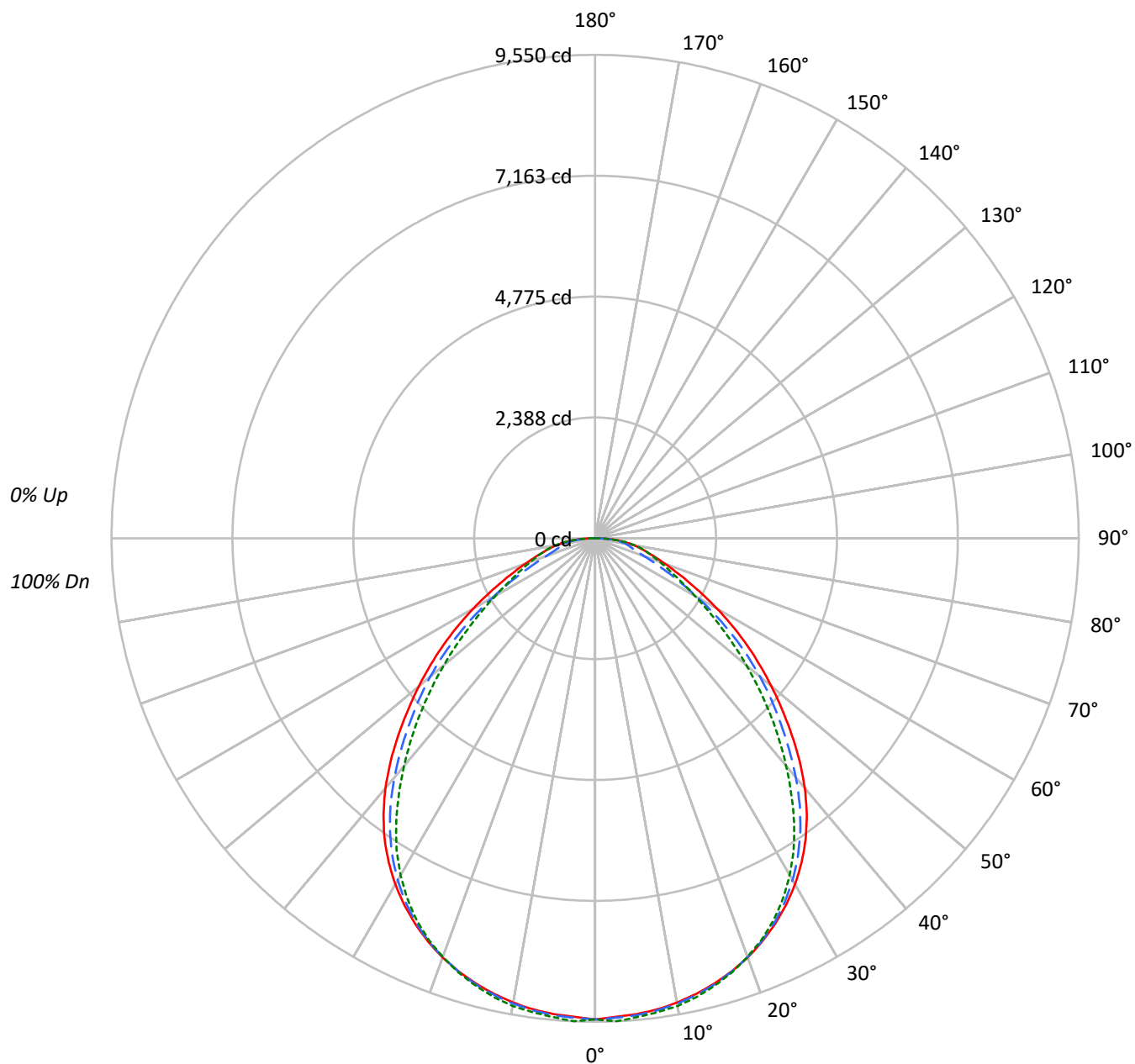
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	15345	15345	15345
5°	15291	15326	15388
10°	15269	15305	15382
15°	15218	15249	15285
20°	15139	15128	15117
25°	14975	14923	14839
30°	14716	14538	14326
35°	14288	13929	13500
40°	13578	12995	12371
45°	12543	11843	11126
50°	11402	10665	9787
55°	10253	9233	8460
60°	8972	7546	7342
65°	7736	5934	6626
70°	6897	4843	6386
75°	6606	4727	6673
80°	7146	5591	7435
85°	8023	6732	8101



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	900.8	4.1
10°-20°	2577.9	11.8
20°-30°	3856.3	17.7
30°-40°	4399.8	20.2
40°-50°	4005.0	18.3
50°-60°	2940.8	13.5
60°-70°	1736.4	8.0
70°-80°	995.1	4.6
80°-90°	420.7	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°	7335.0	33.6
0°-40°	11734.8	53.7
0°-60°	18680.7	85.6
0°-90°	21833.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21833.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9504	9504	9504	9504	9504	
5°	9435	9494	9456	9494	9495	897
15°	9104	9155	9123	9155	9144	2569
25°	8406	8436	8377	8373	8330	3869
35°	7249	7214	7067	6946	6849	4516
45°	5493	5461	5187	4954	4873	4234
55°	3642	3474	3280	3042	3006	3257
65°	2025	1768	1553	1661	1734	2038
75°	1059	908	758	988	1070	1142
85°	433	400	363	429	437	453
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9504.2	9504.2	9504.2	9504.2	9504.2
2.5°	9460.3	9515.0	9480.6	9518.2	9550.3
5°	9434.6	9493.6	9456.0	9493.6	9494.6
7.5°	9387.5	9442.1	9405.7	9446.4	9442.1
10°	9313.4	9368.1	9334.9	9378.9	9382.1
12.5°	9219.1	9271.7	9237.4	9287.8	9279.2
15°	9104.4	9154.8	9122.6	9154.8	9144.2
17.5°	8969.4	9015.5	8973.7	9009.1	8990.9
20°	8810.8	8849.3	8804.3	8837.5	8797.9
22.5°	8621.1	8655.3	8608.2	8626.4	8585.6
25°	8405.6	8435.6	8376.6	8373.4	8329.5
27.5°	8165.5	8181.6	8106.5	8080.8	8030.4
30°	7893.3	7897.5	7797.9	7749.7	7684.2
32.5°	7587.7	7577.1	7449.5	7377.7	7297.2
35°	7249.1	7213.7	7066.8	6945.8	6849.3
37.5°	6866.4	6810.7	6634.9	6455.9	6363.7
40°	6441.9	6376.6	6165.4	5943.5	5869.6
42.5°	5980.0	5924.3	5675.6	5444.0	5371.1
45°	5493.4	5461.2	5186.7	4954.2	4872.7
47.5°	5006.7	4983.1	4715.2	4478.3	4379.6
50°	4539.4	4487.9	4245.7	3986.3	3896.3
52.5°	4085.9	3980.9	3767.6	3501.8	3435.4
55°	3642.2	3474.0	3280.0	3042.0	3005.5
57.5°	3202.7	2985.1	2796.5	2618.6	2617.5
60°	2778.3	2529.6	2336.7	2243.4	2273.5
62.5°	2380.6	2125.5	1916.5	1922.9	1977.6
65°	2024.8	1767.5	1553.1	1661.4	1734.3
67.5°	1719.3	1473.8	1256.2	1457.8	1527.4
70°	1461.0	1239.1	1025.8	1277.6	1352.7
72.5°	1243.4	1056.9	865.0	1127.6	1203.7
75°	1059.0	907.8	757.8	988.3	1069.7
77.5°	909.0	775.0	679.6	855.3	940.0
80°	768.5	650.7	601.3	726.8	799.6
82.5°	608.8	527.4	498.4	590.6	628.1
85°	433.1	399.8	363.4	428.7	437.3
87.5°	237.9	246.5	203.6	246.5	247.6
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)