

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: P730774

Luminaire Tested: **HBLED-LD5-24SE-W-CL-WG-UNV-L750**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730774
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33385)
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-WG-UNV-L750
Description: 24000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS,
WIREGUARD & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23246.0 lumens
Efficiency: N/A
Efficacy: 155.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

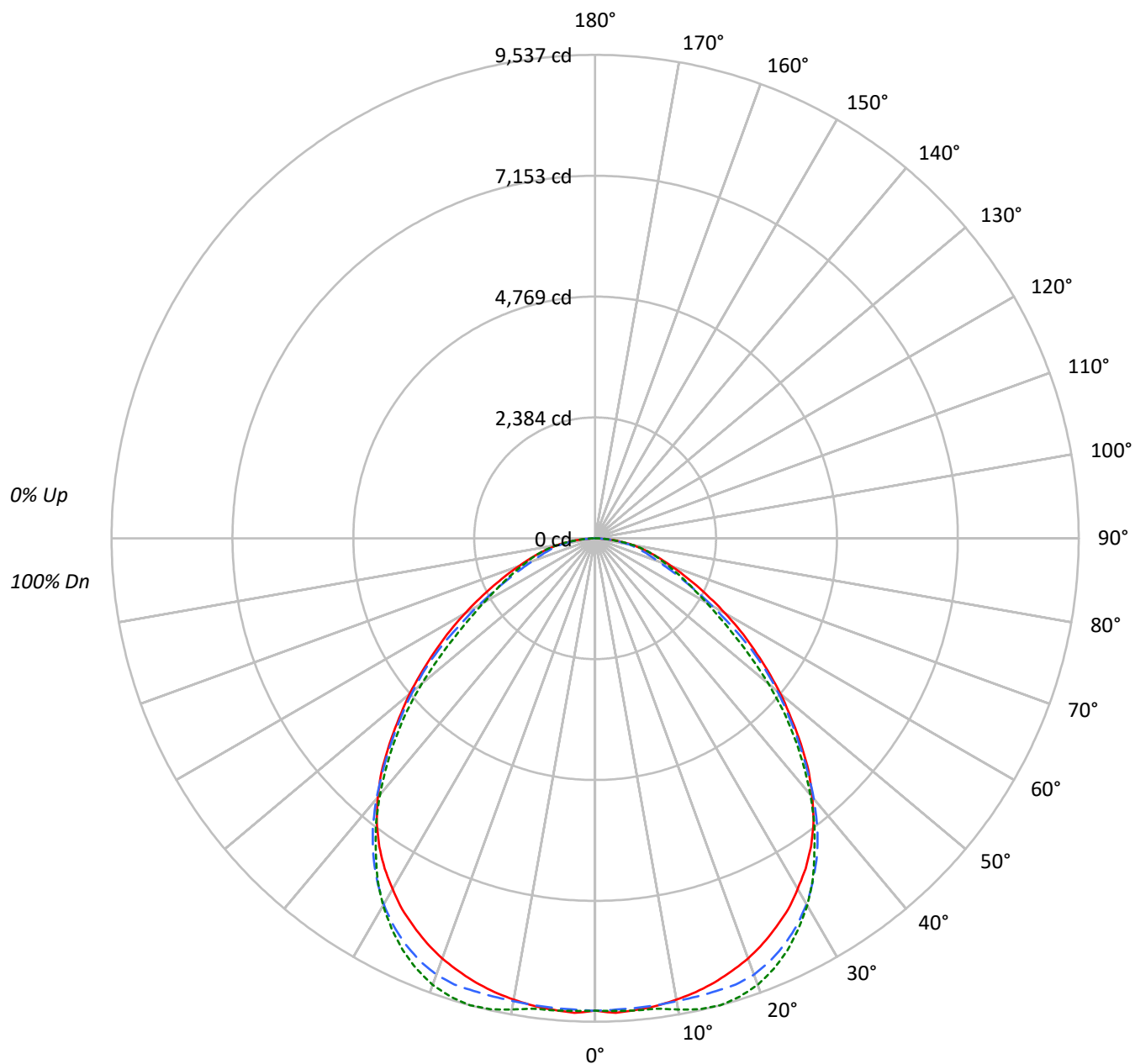
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73		
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65	63		
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55		
5	79	67	58	52	77	65	57	52	63	56	51	61	55	50	60	54	50	48		
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44	42		
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38		
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34		
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31		
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15050	15050	15050
5°	15138	15076	15150
10°	15152	15203	15475
15°	15171	15456	15942
20°	15160	15739	16106
25°	15068	15753	15984
30°	14894	15544	15594
35°	14629	15041	14861
40°	14051	14138	13915
45°	13093	12955	12692
50°	11987	11794	11190
55°	10767	10368	9461
60°	9549	8579	8167
65°	8413	7128	7412
70°	7525	6186	7059
75°	7049	6014	7139
80°	6862	6080	6795
85°	5478	4811	4987



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	887.9	3.8
10°-20°	2615.4	11.3
20°-30°	4023.5	17.3
30°-40°	4695.7	20.2
40°-50°	4363.5	18.8
50°-60°	3234.4	13.9
60°-70°	1977.2	8.5
70°-80°	1126.2	4.8
80°-90°	322.1	1.4
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°	7526.8	32.4
0°-40°	12222.5	52.6
0°-60°	19820.4	85.3
0°-90°	23246.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23246.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9321	9321	9321	9321	9321	
5°	9340	9297	9302	9295	9348	889
15°	9076	9071	9246	9429	9537	2562
25°	8458	8523	8842	8917	8972	3896
35°	7422	7479	7631	7568	7540	4624
45°	5734	5768	5674	5585	5558	4418
55°	3825	3729	3683	3421	3361	3433
65°	2202	2000	1866	1916	1940	2204
75°	1130	1060	964	1099	1144	1209
85°	296	288	260	269	269	341
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9321.0	9321.0	9321.0	9321.0	9321.0
2.5°	9371.5	9318.6	9308.9	9287.3	9335.4
5°	9340.2	9296.9	9301.7	9294.6	9347.5
7.5°	9304.1	9272.9	9292.1	9289.7	9359.5
10°	9241.7	9224.8	9272.9	9325.8	9438.8
12.5°	9171.9	9155.1	9260.9	9395.5	9518.1
15°	9075.8	9070.9	9246.5	9429.1	9537.4
17.5°	8955.5	8962.8	9229.6	9385.9	9482.0
20°	8823.3	8835.3	9159.9	9287.3	9373.9
22.5°	8652.6	8693.5	9025.2	9131.0	9198.3
25°	8457.9	8522.7	8842.5	8917.1	8972.3
27.5°	8248.7	8313.6	8616.5	8655.0	8686.3
30°	7989.0	8080.4	8337.6	8342.5	8364.1
32.5°	7724.6	7806.4	8003.5	7981.8	7986.6
35°	7421.7	7479.3	7630.8	7568.4	7539.5
37.5°	7073.1	7104.3	7200.4	7106.8	7101.9
40°	6666.7	6707.6	6707.6	6577.8	6601.9
42.5°	6234.0	6248.4	6188.4	6065.7	6084.9
45°	5733.9	5767.6	5673.8	5584.9	5558.5
47.5°	5238.7	5272.3	5173.8	5070.4	5024.8
50°	4772.3	4755.4	4695.4	4519.8	4454.9
52.5°	4289.0	4236.1	4212.1	3954.9	3880.3
55°	3825.0	3728.9	3683.2	3421.1	3361.0
57.5°	3394.7	3221.6	3135.1	2930.7	2906.6
60°	2957.2	2762.4	2656.6	2524.4	2529.2
62.5°	2560.5	2356.0	2228.7	2190.2	2207.0
65°	2202.2	2000.2	1865.7	1916.1	1940.1
67.5°	1877.7	1711.8	1560.3	1678.1	1702.1
70°	1594.0	1461.8	1310.3	1483.4	1495.4
72.5°	1358.3	1250.2	1122.7	1286.2	1312.6
75°	1130.0	1060.3	964.1	1098.7	1144.4
77.5°	930.4	875.2	819.8	901.6	952.1
80°	738.0	682.8	653.9	697.2	730.8
82.5°	521.7	485.7	456.8	488.0	504.9
85°	295.7	288.5	259.7	269.2	269.2
87.5°	67.3	76.9	86.6	79.3	67.3
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)