

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: P730694

Luminaire Tested: **HBLED-LD5-24HE-W-CL-UNV-L735**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730694
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-LD5-24HE-W-CL-UNV-L735
Description: 24000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS
& DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22538.0 lumens
Efficiency: N/A
Efficacy: 157.6 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

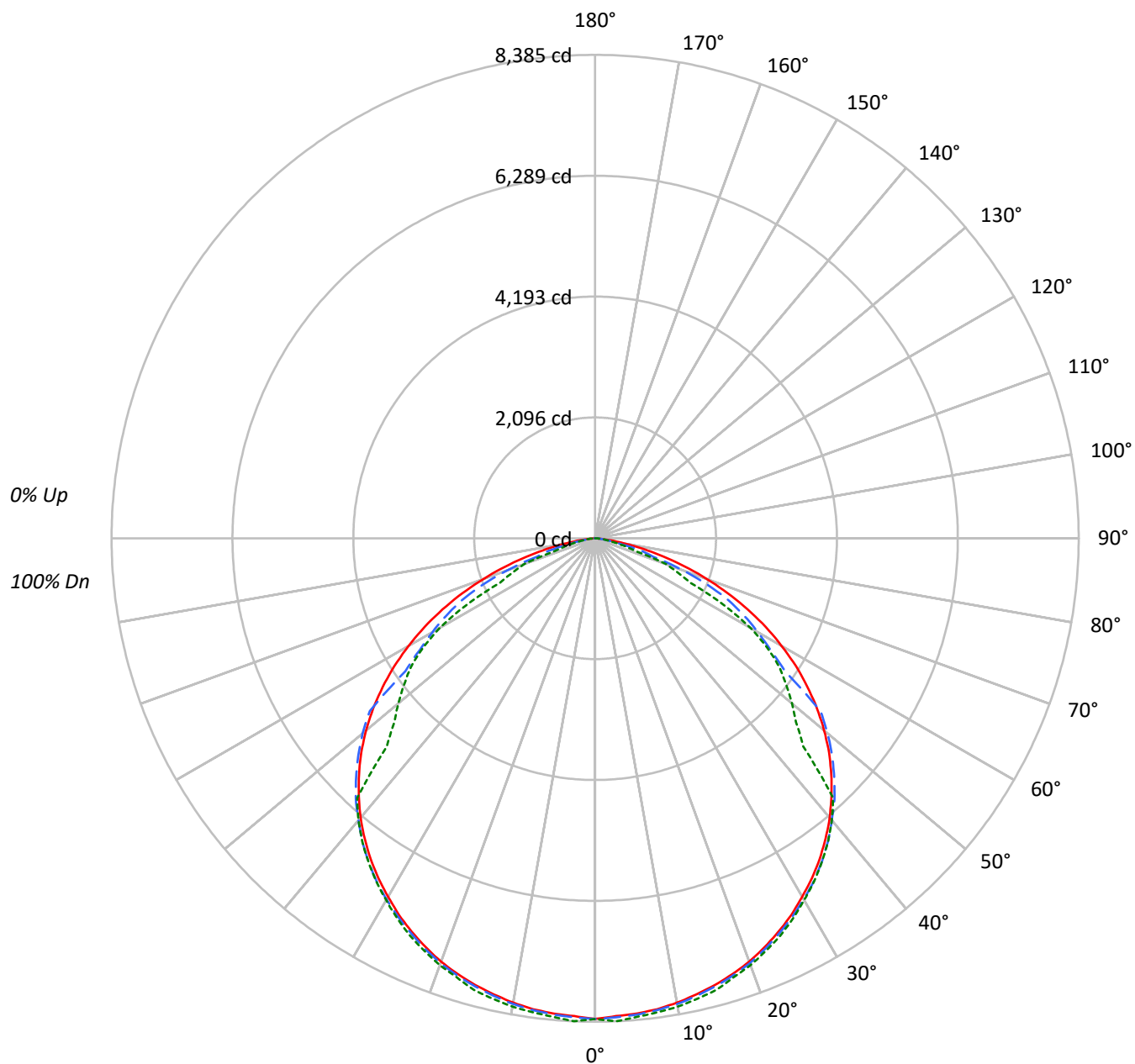
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	13460	13460	13460
5°	13411	13441	13507
10°	13410	13448	13526
15°	13409	13450	13559
20°	13426	13476	13539
25°	13411	13461	13543
30°	13385	13484	13514
35°	13379	13501	13511
40°	13337	13455	13455
45°	13223	13383	11661
50°	13019	13215	11188
55°	12649	11312	10990
60°	12056	10515	10040
65°	11149	9761	6953
70°	9708	7595	6195
75°	7669	5097	3331
80°	4935	2435	2076
85°	2032	1486	1636



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	790.8	3.5
10°-20°	2279.4	10.1
20°-30°	3494.7	15.5
30°-40°	4283.2	19.0
40°-50°	4403.5	19.5
50°-60°	3758.2	16.7
60°-70°	2484.6	11.0
70°-80°	920.5	4.1
80°-90°	123.1	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°	6564.9	29.1
0°-40°	10848.1	48.1
0°-60°	19009.8	84.3
0°-90°	22538.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22538.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8337	8337	8337	8337	8337	
5°	8275	8333	8293	8326	8334	787
15°	8022	8071	8046	8107	8111	2266
25°	7528	7567	7556	7624	7602	3471
35°	6788	6834	6850	6892	6855	4246
45°	5791	5849	5861	5852	5107	4463
55°	4494	4576	4019	3902	3904	4010
65°	2918	2943	2555	2101	1820	2878
75°	1229	1077	817	549	534	1319
85°	110	78	80	87	88	181
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8336.7	8336.7	8336.7	8336.7	8336.7
2.5°	8296.1	8347.9	8317.4	8356.0	8385.4
5°	8274.8	8332.6	8293.0	8325.5	8333.7
7.5°	8238.3	8292.0	8255.5	8298.1	8292.0
10°	8179.4	8228.1	8202.7	8247.4	8250.4
12.5°	8104.3	8153.0	8129.6	8184.4	8183.4
15°	8022.0	8070.8	8046.4	8107.3	8111.4
17.5°	7925.6	7970.3	7952.0	8007.9	7985.5
20°	7813.9	7852.5	7843.3	7896.2	7879.9
22.5°	7676.9	7716.5	7707.4	7768.3	7743.9
25°	7527.7	7567.3	7556.1	7624.1	7601.8
27.5°	7366.4	7403.8	7402.8	7466.8	7432.3
30°	7179.5	7229.3	7232.4	7289.2	7248.6
32.5°	6994.8	7041.5	7054.7	7096.4	7061.8
35°	6787.8	6834.4	6849.7	6892.3	6854.8
37.5°	6564.4	6604.0	6631.4	6662.8	6633.4
40°	6327.9	6363.4	6383.8	6422.3	6383.8
42.5°	6064.0	6114.8	6143.2	6170.6	6107.7
45°	5790.9	5848.8	5861.0	5851.8	5106.8
47.5°	5501.7	5564.6	5571.7	4859.1	4722.1
50°	5182.9	5262.1	5261.1	4490.6	4454.1
52.5°	4851.0	4927.2	4924.1	4202.4	4178.0
55°	4493.6	4575.9	4018.6	3901.9	3904.0
57.5°	4129.3	4188.1	3605.5	3610.5	3543.5
60°	3733.4	3789.2	3256.3	3224.9	3109.1
62.5°	3336.6	3359.9	2918.3	2765.0	2544.8
65°	2918.3	2942.7	2555.0	2101.2	1820.0
67.5°	2489.0	2513.3	2120.4	1563.2	1541.8
70°	2056.5	1857.5	1608.9	1302.4	1312.4
72.5°	1630.2	1427.2	1051.6	1009.0	728.8
75°	1229.3	1077.0	817.1	549.2	533.9
77.5°	855.7	742.0	437.5	374.6	350.2
80°	530.8	372.5	261.9	232.4	223.3
82.5°	269.0	214.2	142.1	142.1	142.1
85°	109.7	78.2	80.2	87.3	88.3
87.5°	23.3	31.5	38.6	39.6	38.6
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)