

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: P730682

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730682
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-LD5-24HE-W-A-UNV-L735
Description: 24000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND PRISMATIC ACRYLIC LENS & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21964.0 lumens
Efficiency: N/A
Efficacy: 153.6 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

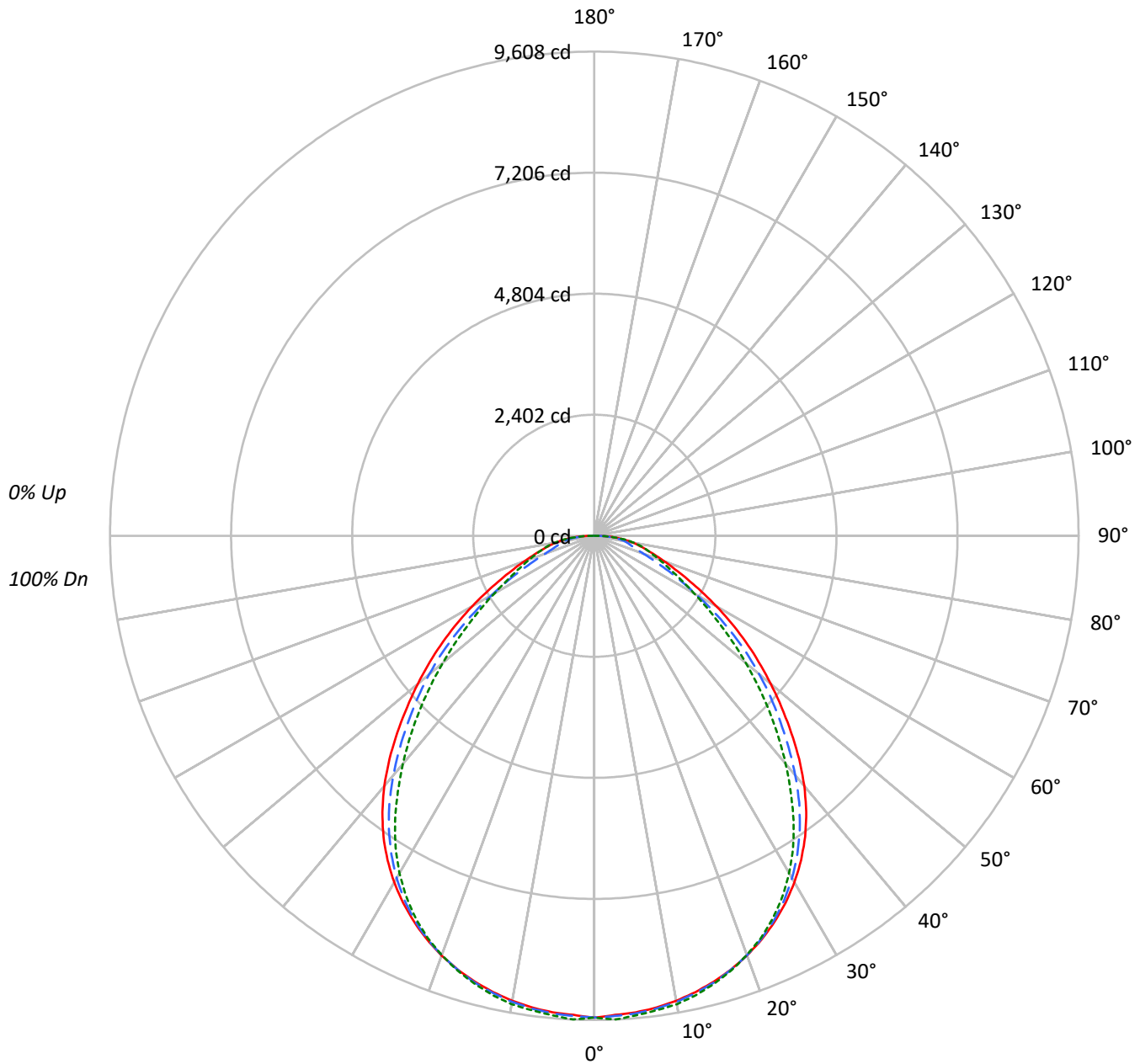
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	15438	15438	15438
5°	15383	15418	15481
10°	15361	15396	15474
15°	15310	15340	15377
20°	15230	15219	15207
25°	15064	15013	14928
30°	14804	14625	14412
35°	14374	14013	13581
40°	13659	13073	12446
45°	12619	11914	11193
50°	11471	10729	9846
55°	10314	9288	8511
60°	9026	7591	7385
65°	7782	5969	6666
70°	6938	4872	6424
75°	6646	4755	6713
80°	7189	5624	7479
85°	8071	6773	8149



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	906.2	4.1
10°-20°	2593.4	11.8
20°-30°	3879.5	17.7
30°-40°	4426.2	20.2
40°-50°	4029.1	18.3
50°-60°	2958.5	13.5
60°-70°	1746.9	8.0
70°-80°	1001.1	4.6
80°-90°	423.3	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°	7379.1	33.6
0°-40°	11805.2	53.7
0°-60°	18792.8	85.6
0°-90°	21964.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21964.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9561	9561	9561	9561	9561	
5°	9491	9550	9513	9550	9552	902
15°	9159	9210	9177	9210	9199	2585
25°	8456	8486	8427	8424	8380	3892
35°	7293	7257	7109	6987	6890	4544
45°	5526	5494	5218	4984	4902	4259
55°	3664	3495	3300	3060	3024	3277
65°	2037	1778	1562	1671	1745	2050
75°	1065	913	762	994	1076	1148
85°	436	402	366	431	440	456
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9561.3	9561.3	9561.3	9561.3	9561.3
2.5°	9517.0	9572.1	9537.5	9575.3	9607.7
5°	9491.2	9550.5	9512.8	9550.5	9551.6
7.5°	9443.8	9498.7	9462.1	9503.1	9498.7
10°	9369.3	9424.3	9391.0	9435.2	9438.4
12.5°	9274.4	9327.3	9292.9	9343.5	9334.9
15°	9159.1	9209.7	9177.4	9209.7	9199.0
17.5°	9023.2	9069.6	9027.6	9063.2	9044.8
20°	8863.6	8902.4	8857.2	8890.6	8850.7
22.5°	8672.8	8707.3	8659.8	8678.1	8637.1
25°	8456.0	8486.2	8426.9	8423.7	8379.5
27.5°	8214.5	8230.7	8155.2	8129.3	8078.6
30°	7940.7	7944.9	7844.6	7796.2	7730.3
32.5°	7633.3	7622.5	7494.2	7422.0	7341.0
35°	7292.6	7257.0	7109.2	6987.4	6890.4
37.5°	6907.6	6851.6	6674.7	6494.6	6401.8
40°	6480.6	6414.8	6202.4	5979.2	5904.8
42.5°	6015.9	5959.8	5709.6	5476.7	5403.4
45°	5526.3	5494.0	5217.9	4983.9	4901.9
47.5°	5036.8	5013.0	4743.5	4505.2	4405.9
50°	4566.6	4514.8	4271.2	4010.2	3919.7
52.5°	4110.5	4004.8	3790.3	3522.8	3456.0
55°	3664.1	3494.8	3299.6	3060.3	3023.5
57.5°	3221.9	3003.1	2813.3	2634.3	2633.2
60°	2795.0	2544.8	2350.7	2256.8	2287.1
62.5°	2394.9	2138.2	1928.0	1934.5	1989.5
65°	2036.9	1778.1	1562.4	1671.4	1744.7
67.5°	1729.6	1482.6	1263.8	1466.5	1536.5
70°	1469.7	1246.5	1032.0	1285.3	1360.8
72.5°	1250.9	1063.2	870.2	1134.4	1210.9
75°	1065.4	913.3	762.3	994.2	1076.1
77.5°	914.4	779.6	683.7	860.4	945.6
80°	773.2	654.6	604.9	731.1	804.4
82.5°	612.4	530.6	501.4	594.1	631.9
85°	435.7	402.2	365.6	431.3	439.9
87.5°	239.4	248.0	204.8	248.0	249.0
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)