

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: P730687

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730687
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-L850
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: 22024.0 lumens
Efficiency: N/A
Efficacy: 154.0 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

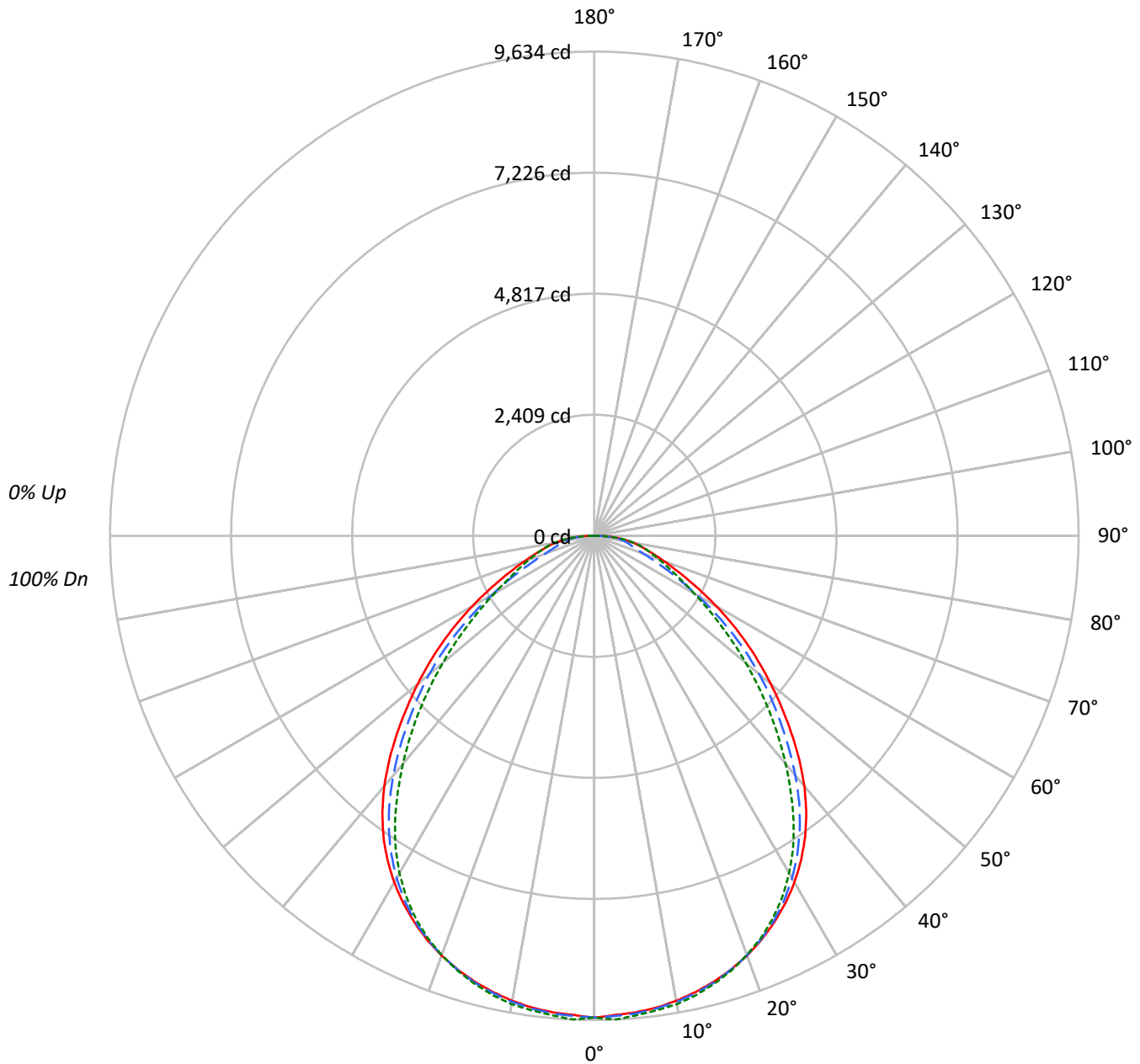
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	15480	15480	15480
5°	15425	15460	15523
10°	15403	15438	15517
15°	15352	15382	15418
20°	15271	15260	15249
25°	15106	15053	14969
30°	14845	14665	14451
35°	14413	14051	13618
40°	13696	13109	12479
45°	12653	11947	11223
50°	11502	10758	9873
55°	10342	9314	8534
60°	9050	7611	7406
65°	7803	5985	6684
70°	6957	4885	6441
75°	6664	4769	6731
80°	7209	5640	7500
85°	8094	6791	8172



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	908.7	4.1
10°-20°	2600.5	11.8
20°-30°	3890.1	17.7
30°-40°	4438.3	20.2
40°-50°	4040.1	18.3
50°-60°	2966.6	13.5
60°-70°	1751.6	8.0
70°-80°	1003.8	4.6
80°-90°	424.4	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°	7399.2	33.6
0°-40°	11837.5	53.7
0°-60°	18844.1	85.6
0°-90°	22024.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22024.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9587	9587	9587	9587	9587	
5°	9517	9577	9539	9577	9578	905
15°	9184	9235	9202	9235	9224	2592
25°	8479	8509	8450	8447	8402	3903
35°	7312	7277	7129	7006	6909	4556
45°	5541	5509	5232	4998	4915	4271
55°	3674	3504	3309	3069	3032	3286
65°	2042	1783	1567	1676	1750	2055
75°	1068	916	764	997	1079	1152
85°	437	403	367	432	441	457
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9587.4	9587.4	9587.4	9587.4	9587.4
2.5°	9543.0	9598.2	9563.6	9601.5	9633.9
5°	9517.2	9576.6	9538.8	9576.6	9577.7
7.5°	9469.6	9524.7	9488.0	9529.1	9524.7
10°	9394.9	9450.1	9416.6	9460.9	9464.2
12.5°	9299.8	9352.8	9318.2	9369.0	9360.4
15°	9184.1	9234.9	9202.4	9234.9	9224.1
17.5°	9047.9	9094.4	9052.2	9087.9	9069.6
20°	8887.8	8926.7	8881.4	8914.9	8874.9
22.5°	8696.5	8731.1	8683.5	8701.8	8660.7
25°	8479.1	8509.4	8449.9	8446.7	8402.4
27.5°	8236.9	8253.2	8177.5	8151.5	8100.7
30°	7962.4	7966.6	7866.1	7817.5	7751.4
32.5°	7654.1	7643.4	7514.6	7442.2	7361.1
35°	7312.5	7276.8	7128.7	7006.5	6909.2
37.5°	6926.5	6870.3	6692.9	6512.4	6419.3
40°	6498.3	6432.4	6219.4	5995.5	5920.9
42.5°	6032.3	5976.1	5725.2	5491.7	5418.1
45°	5541.4	5509.0	5232.1	4997.5	4915.3
47.5°	5050.5	5026.7	4756.4	4517.5	4417.9
50°	4579.1	4527.2	4282.9	4021.1	3930.4
52.5°	4121.7	4015.7	3800.6	3532.4	3465.4
55°	3674.1	3504.4	3308.7	3068.6	3031.8
57.5°	3230.7	3011.3	2821.0	2641.5	2640.4
60°	2802.6	2551.8	2357.1	2263.0	2293.4
62.5°	2401.4	2144.1	1933.3	1939.7	1994.9
65°	2042.5	1782.9	1566.7	1675.9	1749.5
67.5°	1734.3	1486.7	1267.2	1470.5	1540.7
70°	1473.8	1249.9	1034.8	1288.8	1364.5
72.5°	1254.3	1066.1	872.6	1137.4	1214.2
75°	1068.3	915.8	764.4	996.9	1079.0
77.5°	916.9	781.7	685.6	862.8	948.2
80°	775.3	656.3	606.6	733.1	806.6
82.5°	614.1	532.0	502.8	595.7	633.6
85°	436.9	403.3	366.6	432.5	441.1
87.5°	240.0	248.7	205.4	248.7	249.7
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)