

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: P730718

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730718
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-003-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24HE-W-UNV-L735
Description: 24000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24987.0 lumens
Efficiency: N/A
Efficacy: 174.7 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.31 / 1.43
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

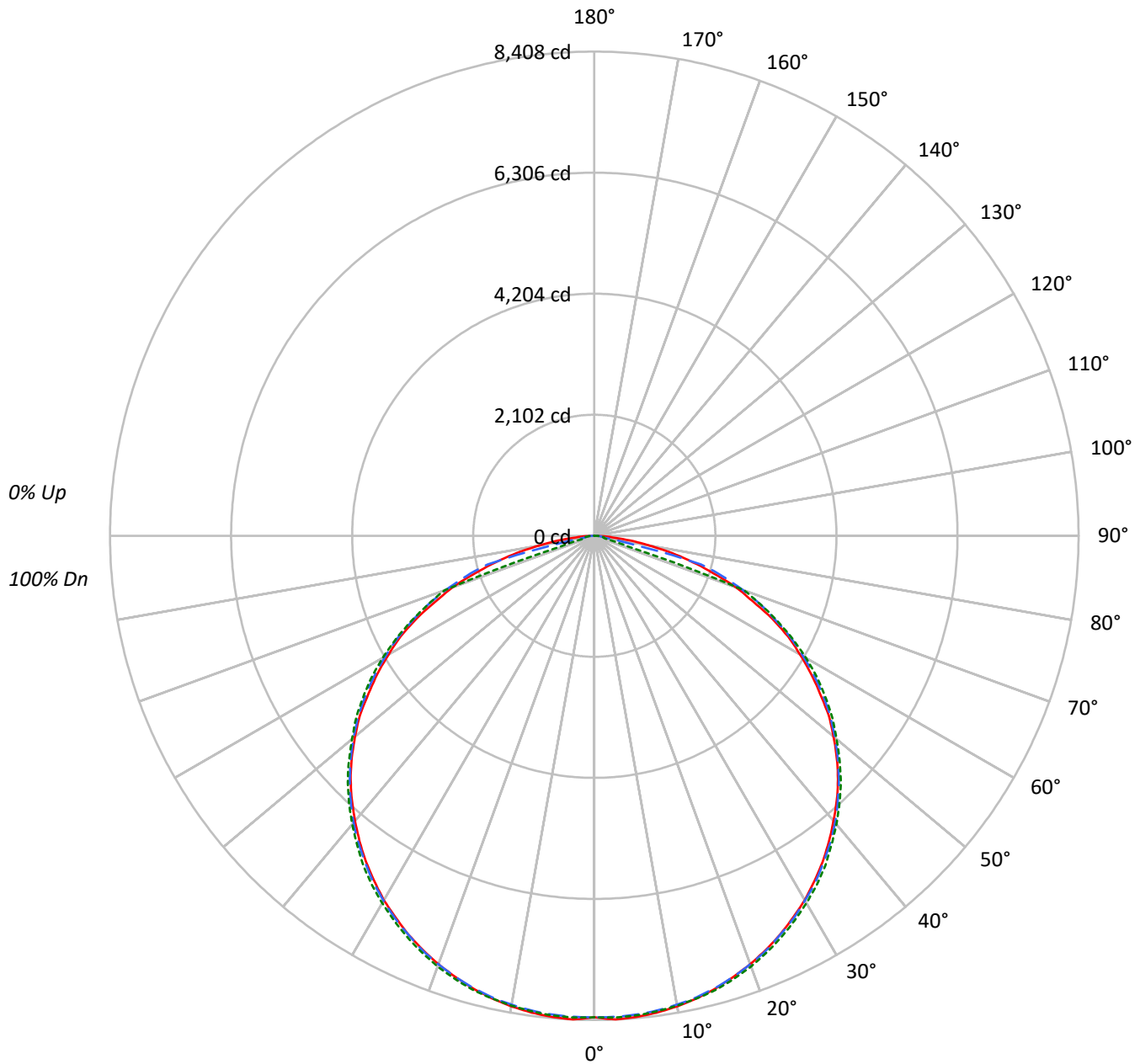
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72
3	90	80	72	65	88	78	71	64	75	69	63	72	67	62	70	65	61
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13500	13500	13500
5°	13597	13528	13552
10°	13605	13556	13583
15°	13603	13584	13646
20°	13602	13605	13675
25°	13608	13615	13698
30°	13623	13640	13731
35°	13621	13665	13779
40°	13623	13709	13784
45°	13661	13712	13823
50°	13620	13699	13788
55°	13470	13659	13805
60°	13317	13533	13702
65°	13022	13293	13393
70°	12363	12890	13049
75°	11027	11957	1441
80°	8868	1490	1576
85°	5900	1932	1967



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	794.1	3.2
10°-20°	2294.7	9.2
20°-30°	3525.7	14.1
30°-40°	4340.2	17.4
40°-50°	4627.1	18.5
50°-60°	4325.4	17.3
60°-70°	3424.1	13.7
70°-80°	1456.8	5.8
80°-90°	198.9	0.8
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°	6614.5	26.5
0°-40°	10954.7	43.8
0°-60°	19907.2	79.7
0°-90°	24987.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	24987.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8361	8361	8361	8361	8361	
5°	8389	8352	8346	8313	8361	798
15°	8138	8123	8127	8104	8164	2298
25°	7639	7629	7642	7639	7689	3522
35°	6910	6899	6933	6957	6990	4324
45°	5983	5949	6005	6029	6054	4610
55°	4785	4800	4852	4869	4904	4285
65°	3409	3438	3479	3506	3506	3353
75°	1768	1844	1917	313	231	1870
85°	318	95	104	108	106	415
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8361.4	8361.4	8361.4	8361.4	8361.4
2.5°	8407.9	8368.8	8361.4	8327.8	8372.5
5°	8389.3	8352.1	8346.5	8312.9	8361.4
7.5°	8350.2	8320.4	8316.7	8281.3	8329.7
10°	8298.0	8270.1	8268.2	8236.6	8285.0
12.5°	8227.3	8203.0	8210.5	8178.8	8227.3
15°	8137.8	8122.9	8126.7	8104.3	8163.9
17.5°	8029.8	8022.4	8029.8	8013.1	8067.1
20°	7916.2	7906.9	7918.1	7908.7	7959.0
22.5°	7783.9	7772.8	7795.1	7782.1	7828.7
25°	7638.7	7629.3	7642.4	7638.7	7689.0
27.5°	7472.9	7463.6	7491.5	7493.4	7532.5
30°	7307.1	7294.1	7316.4	7325.7	7364.9
32.5°	7109.7	7105.9	7139.5	7146.9	7187.9
35°	6910.4	6899.2	6932.7	6956.9	6990.5
37.5°	6692.4	6690.6	6726.0	6746.5	6763.2
40°	6463.3	6454.0	6504.3	6524.8	6539.7
42.5°	6230.5	6210.0	6258.5	6284.5	6301.3
45°	5982.8	5949.3	6005.1	6029.3	6053.6
47.5°	5710.8	5681.0	5735.1	5761.1	5777.9
50°	5422.1	5394.2	5453.8	5476.1	5489.2
52.5°	5131.6	5103.6	5166.9	5185.6	5217.2
55°	4785.1	4800.0	4852.2	4868.9	4904.3
57.5°	4464.7	4477.8	4528.1	4548.6	4589.5
60°	4123.9	4144.4	4190.9	4211.4	4243.1
62.5°	3794.2	3796.0	3851.9	3861.2	3885.5
65°	3408.6	3438.4	3479.4	3505.5	3505.5
67.5°	2978.4	3051.0	3121.8	3116.2	3131.1
70°	2618.9	2646.8	2730.6	2743.7	2764.1
72.5°	2168.1	2240.7	2333.9	1743.4	592.3
75°	1767.6	1844.0	1916.7	312.9	231.0
77.5°	1372.8	1432.4	637.0	178.8	175.1
80°	953.7	1048.7	160.2	163.9	169.5
82.5°	627.7	512.2	132.2	145.3	147.1
85°	318.5	95.0	104.3	108.0	106.2
87.5°	104.3	57.7	59.6	61.5	63.3
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)