

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: P730721

Luminaire Tested: **HBLED-LD5-24HE-W-UNV-L835**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730721
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-L835
Description: 24000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23886.0 lumens
Efficiency: N/A
Efficacy: 167.0 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

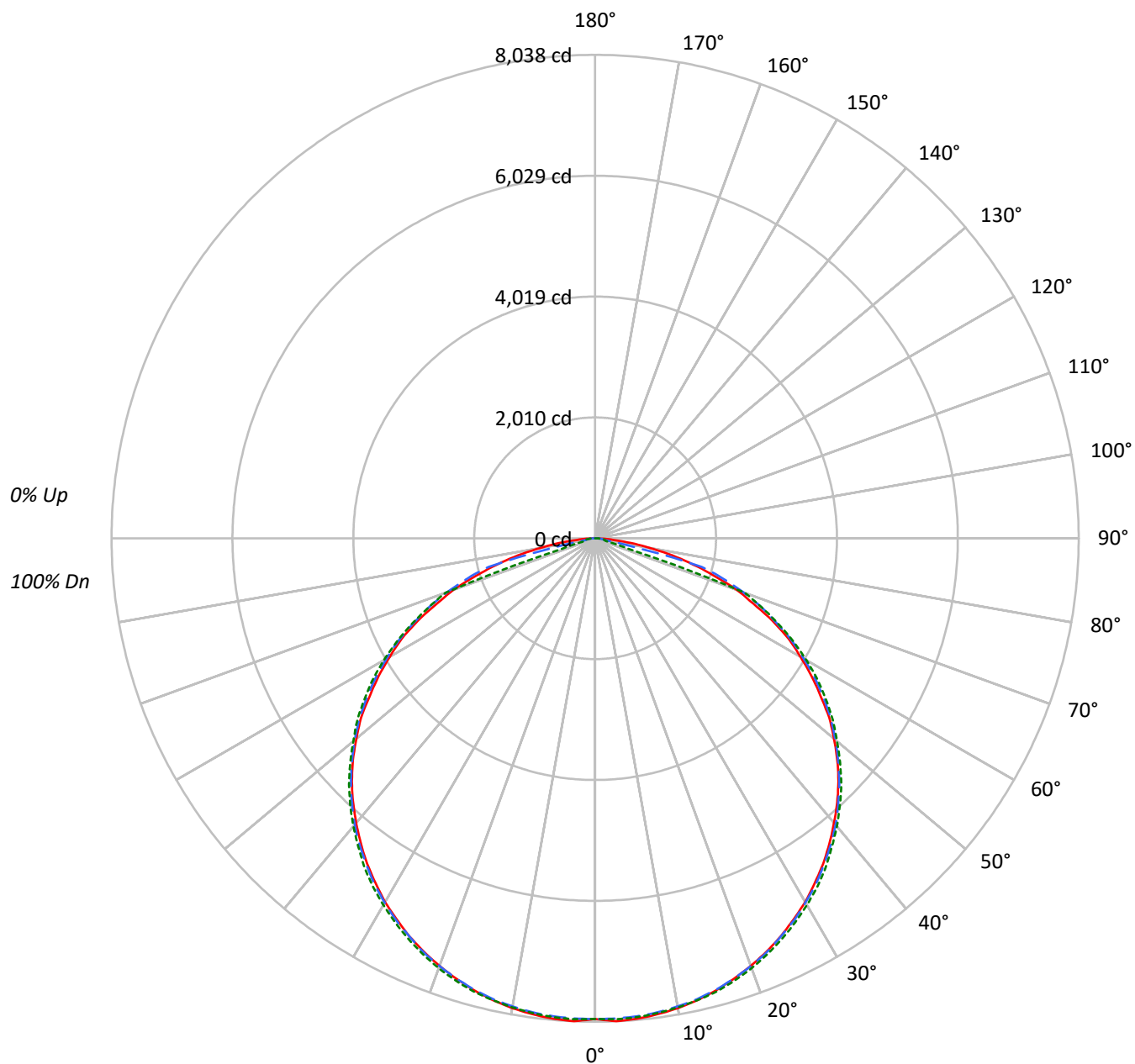
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85		
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70		
3	90	80	72	65	88	78	71	64	75	69	63	72	67	62	70	65	61	59		
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50		
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43		
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37		
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33		
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29		
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26		
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12905	12905	12905
5°	12998	12932	12955
10°	13005	12958	12985
15°	13003	12986	13045
20°	13002	13005	13073
25°	13009	13015	13094
30°	13023	13039	13126
35°	13021	13063	13171
40°	13022	13105	13176
45°	13059	13108	13213
50°	13019	13096	13180
55°	12876	13057	13197
60°	12730	12937	13098
65°	12449	12707	12802
70°	11818	12323	12474
75°	10541	11430	1377
80°	8476	1424	1506
85°	5641	1847	1880



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	759.2	3.2
10°-20°	2193.6	9.2
20°-30°	3370.3	14.1
30°-40°	4148.9	17.4
40°-50°	4423.2	18.5
50°-60°	4134.8	17.3
60°-70°	3273.2	13.7
70°-80°	1392.6	5.8
80°-90°	190.2	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°	6323.0	26.5
0°-40°	10472.0	43.8
0°-60°	19030.0	79.7
0°-90°	23886.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23886.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7993	7993	7993	7993	7993	
5°	8020	7984	7979	7947	7993	762
15°	7779	7765	7769	7747	7804	2196
25°	7302	7293	7306	7302	7350	3367
35°	6606	6595	6627	6650	6682	4133
45°	5719	5687	5740	5764	5787	4407
55°	4574	4588	4638	4654	4688	4096
65°	3258	3287	3326	3351	3351	3206
75°	1690	1763	1832	299	221	1788
85°	304	91	100	103	102	397
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7992.9	7992.9	7992.9	7992.9	7992.9
2.5°	8037.5	8000.1	7992.9	7960.9	8003.6
5°	8019.6	7984.0	7978.7	7946.6	7992.9
7.5°	7982.3	7953.8	7950.2	7916.4	7962.7
10°	7932.4	7905.7	7903.9	7873.6	7919.9
12.5°	7864.7	7841.6	7848.7	7818.4	7864.7
15°	7779.3	7765.0	7768.6	7747.2	7804.2
17.5°	7676.0	7668.9	7676.0	7660.0	7711.6
20°	7567.4	7558.5	7569.2	7560.3	7608.3
22.5°	7441.0	7430.3	7451.6	7439.2	7483.7
25°	7302.1	7293.2	7305.6	7302.1	7350.2
27.5°	7143.6	7134.7	7161.4	7163.2	7200.6
30°	6985.1	6972.7	6994.0	7002.9	7040.3
32.5°	6796.4	6792.8	6824.9	6832.0	6871.2
35°	6605.9	6595.2	6627.2	6650.4	6682.4
37.5°	6397.6	6395.8	6429.6	6449.2	6465.2
40°	6178.5	6169.6	6217.7	6237.3	6251.5
42.5°	5956.0	5936.4	5982.7	6007.6	6023.6
45°	5719.2	5687.1	5740.5	5763.7	5786.8
47.5°	5459.2	5430.7	5482.3	5507.3	5523.3
50°	5183.2	5156.5	5213.5	5234.8	5247.3
52.5°	4905.4	4878.7	4939.3	4957.1	4987.4
55°	4574.3	4588.5	4638.4	4654.4	4688.2
57.5°	4268.0	4280.5	4328.5	4348.1	4387.3
60°	3942.2	3961.7	4006.3	4025.8	4056.1
62.5°	3627.0	3628.8	3682.2	3691.1	3714.3
65°	3258.4	3286.9	3326.1	3351.0	3351.0
67.5°	2847.1	2916.6	2984.2	2978.9	2993.1
70°	2503.5	2530.2	2610.3	2622.8	2642.4
72.5°	2072.6	2142.0	2231.0	1666.6	566.2
75°	1689.8	1762.8	1832.2	299.1	220.8
77.5°	1312.3	1369.3	609.0	170.9	167.4
80°	911.6	1002.5	153.1	156.7	162.0
82.5°	600.0	489.7	126.4	138.9	140.7
85°	304.5	90.8	99.7	103.3	101.5
87.5°	99.7	55.2	57.0	58.8	60.5
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)