

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: P730697

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730697
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-L835
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: 21545.0 lumens
Efficiency: N/A
Efficacy: 150.7 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

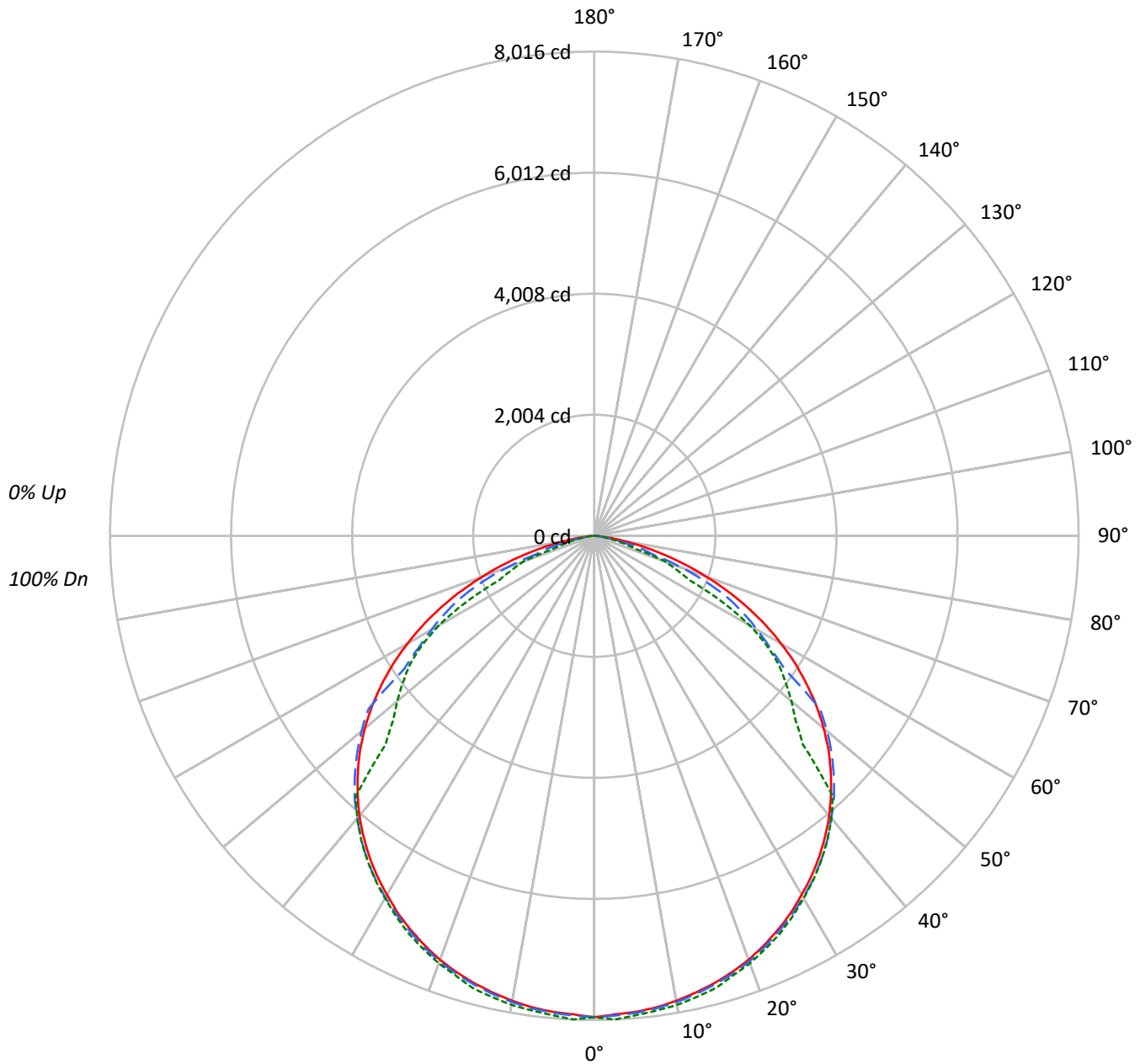
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	12867	12867	12867
5°	12820	12849	12912
10°	12819	12856	12931
15°	12818	12857	12961
20°	12834	12883	12943
25°	12820	12868	12946
30°	12796	12890	12919
35°	12790	12906	12916
40°	12750	12862	12862
45°	12640	12793	11147
50°	12445	12633	10695
55°	12092	10814	10505
60°	11525	10052	9597
65°	10658	9331	6647
70°	9280	7260	5923
75°	7331	4873	3184
80°	4719	2327	1984
85°	1941	1421	1564



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	756.0	3.5
10°-20°	2179.0	10.1
20°-30°	3340.7	15.5
30°-40°	4094.5	19.0
40°-50°	4209.5	19.5
50°-60°	3592.6	16.7
60°-70°	2375.1	11.0
70°-80°	880.0	4.1
80°-90°	117.7	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°	6275.6	29.1
0°-40°	10370.1	48.1
0°-60°	18172.2	84.3
0°-90°	21545.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21545.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7969	7969	7969	7969	7969	
5°	7910	7966	7928	7959	7966	752
15°	7669	7715	7692	7750	7754	2166
25°	7196	7234	7223	7288	7267	3318
35°	6489	6533	6548	6589	6553	4059
45°	5536	5591	5603	5594	4882	4266
55°	4296	4374	3842	3730	3732	3833
65°	2790	2813	2442	2009	1740	2751
75°	1175	1030	781	525	510	1261
85°	105	75	77	83	84	173
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7969.4	7969.4	7969.4	7969.4	7969.4
2.5°	7930.6	7980.1	7950.9	7987.8	8015.9
5°	7910.2	7965.5	7927.7	7958.7	7966.5
7.5°	7875.3	7926.7	7891.7	7932.5	7926.7
10°	7819.0	7865.6	7841.3	7884.1	7886.9
12.5°	7747.2	7793.7	7771.5	7823.8	7822.8
15°	7668.6	7715.2	7691.8	7750.1	7754.0
17.5°	7576.4	7619.1	7601.6	7655.1	7633.6
20°	7469.6	7506.5	7497.8	7548.3	7532.7
22.5°	7338.6	7376.5	7367.8	7426.0	7402.7
25°	7196.1	7233.9	7223.2	7288.2	7266.9
27.5°	7041.8	7077.6	7076.6	7137.9	7104.9
30°	6863.2	6910.8	6913.7	6968.0	6929.2
32.5°	6686.7	6731.2	6743.9	6783.7	6750.7
35°	6488.7	6533.3	6547.9	6588.7	6552.7
37.5°	6275.2	6313.0	6339.2	6369.3	6341.2
40°	6049.1	6083.0	6102.5	6139.3	6102.5
42.5°	5796.8	5845.4	5872.5	5898.7	5838.6
45°	5535.8	5591.1	5602.7	5594.0	4881.8
47.5°	5259.3	5319.4	5326.2	4645.1	4514.1
50°	4954.6	5030.3	5029.3	4292.7	4257.9
52.5°	4637.3	4710.1	4707.2	4017.2	3994.0
55°	4295.7	4374.3	3841.5	3730.0	3732.0
57.5°	3947.3	4003.6	3446.7	3451.5	3387.4
60°	3568.9	3622.3	3112.9	3082.8	2972.1
62.5°	3189.6	3211.8	2789.7	2643.2	2432.7
65°	2789.7	2813.0	2442.4	2008.6	1739.8
67.5°	2379.3	2402.6	2027.0	1494.3	1473.9
70°	1965.9	1775.7	1538.0	1245.0	1254.6
72.5°	1558.4	1364.3	1005.3	964.5	696.7
75°	1175.1	1029.5	781.1	525.0	510.4
77.5°	818.0	709.3	418.2	358.1	334.8
80°	507.5	356.1	250.3	222.2	213.4
82.5°	257.1	204.8	135.9	135.9	135.9
85°	104.8	74.7	76.7	83.4	84.4
87.5°	22.3	30.1	36.9	37.9	36.9
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)