

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: P730686

Luminaire Tested: **HBLED-LD5-24HE-W-A-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730686
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-L840
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: 21601.0 lumens
Efficiency: N/A
Efficacy: 151.1 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

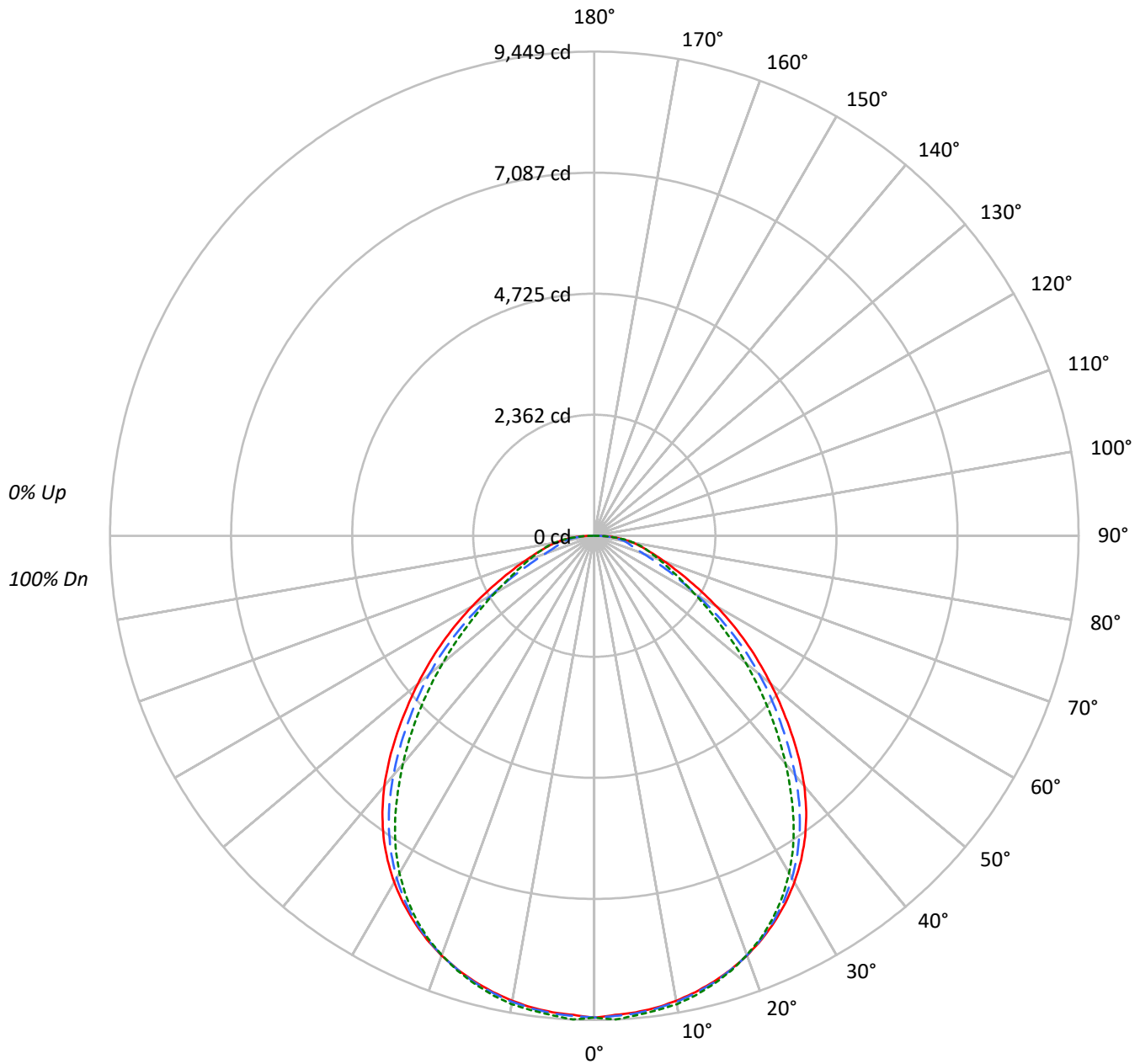
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	15182	15182	15182
5°	15129	15163	15225
10°	15107	15142	15218
15°	15057	15087	15122
20°	14978	14967	14956
25°	14815	14764	14681
30°	14560	14384	14174
35°	14136	13781	13357
40°	13433	12857	12240
45°	12410	11717	11008
50°	11281	10551	9683
55°	10144	9135	8371
60°	8876	7465	7263
65°	7653	5870	6555
70°	6824	4791	6318
75°	6536	4677	6602
80°	7070	5531	7356
85°	7938	6660	8016



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	891.2	4.1
10°-20°	2550.5	11.8
20°-30°	3815.4	17.7
30°-40°	4353.0	20.2
40°-50°	3962.5	18.3
50°-60°	2909.6	13.5
60°-70°	1718.0	8.0
70°-80°	984.5	4.6
80°-90°	416.3	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°	7257.1	33.6
0°-40°	11610.1	53.7
0°-60°	18482.2	85.6
0°-90°	21601.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21601.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9403	9403	9403	9403	9403	
5°	9334	9393	9356	9393	9394	887
15°	9008	9058	9026	9058	9047	2542
25°	8316	8346	8288	8284	8241	3828
35°	7172	7137	6992	6872	6776	4468
45°	5435	5403	5132	4902	4821	4189
55°	3604	3437	3245	3010	2974	3223
65°	2003	1749	1537	1644	1716	2016
75°	1048	898	750	978	1058	1129
85°	428	396	360	424	433	448
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9403.2	9403.2	9403.2	9403.2	9403.2
2.5°	9359.8	9413.9	9379.9	9417.0	9448.9
5°	9334.4	9392.7	9355.6	9392.7	9393.7
7.5°	9287.7	9341.7	9305.7	9346.0	9341.7
10°	9214.5	9268.6	9235.7	9279.2	9282.4
12.5°	9121.2	9173.1	9139.3	9189.1	9180.6
15°	9007.7	9057.5	9025.7	9057.5	9047.0
17.5°	8874.1	8919.7	8878.4	8913.4	8895.4
20°	8717.1	8755.3	8710.8	8743.6	8704.4
22.5°	8529.5	8563.4	8516.7	8534.7	8494.4
25°	8316.3	8345.9	8287.6	8284.5	8241.0
27.5°	8078.7	8094.7	8020.4	7994.9	7945.1
30°	7809.4	7813.6	7715.0	7667.3	7602.6
32.5°	7507.1	7496.6	7370.3	7299.3	7219.7
35°	7172.0	7137.0	6991.8	6871.9	6776.5
37.5°	6793.5	6738.3	6564.4	6387.3	6296.0
40°	6373.5	6308.8	6099.9	5880.3	5807.2
42.5°	5916.5	5861.3	5615.3	5386.2	5314.1
45°	5435.0	5403.2	5131.6	4901.5	4820.9
47.5°	4953.5	4930.2	4665.1	4430.7	4333.1
50°	4491.2	4440.2	4200.6	3943.9	3854.9
52.5°	4042.5	3938.6	3727.6	3464.6	3398.9
55°	3603.5	3437.0	3245.1	3009.7	2973.6
57.5°	3168.7	2953.4	2766.8	2590.7	2589.7
60°	2748.8	2502.7	2311.8	2219.5	2249.3
62.5°	2355.3	2102.9	1896.1	1902.5	1956.6
65°	2003.3	1748.7	1536.6	1643.7	1715.9
67.5°	1701.0	1458.1	1242.9	1442.3	1511.1
70°	1445.5	1225.9	1014.9	1264.1	1338.3
72.5°	1230.2	1045.6	855.8	1115.6	1190.9
75°	1047.8	898.2	749.7	977.8	1058.3
77.5°	899.3	766.7	672.4	846.2	930.0
80°	760.4	643.7	594.9	719.0	791.1
82.5°	602.3	521.8	493.1	584.3	621.4
85°	428.5	395.5	359.5	424.2	432.7
87.5°	235.4	243.9	201.5	243.9	244.9
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)