

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: P730704

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730704
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33385)
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-WG-UNV-L840
Description: 24000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS,
WIREGUARD & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21797.0 lumens
Efficiency: N/A
Efficacy: 152.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

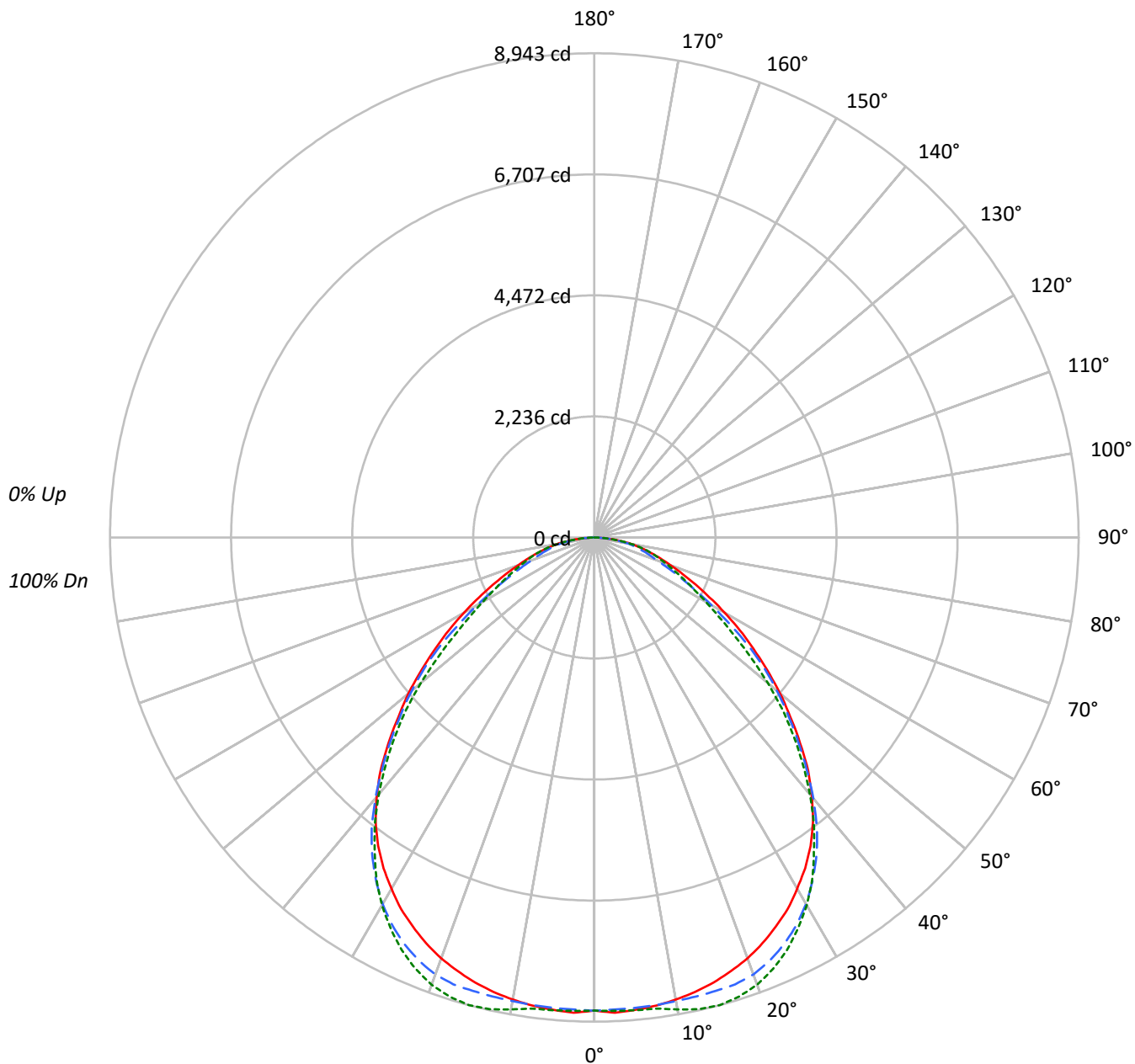
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73		
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65	63		
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55		
5	79	67	58	52	77	65	57	52	63	56	51	61	55	50	60	54	50	48		
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44	42		
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38		
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34		
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31		
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14111	14111	14111
5°	14195	14136	14206
10°	14207	14255	14510
15°	14225	14492	14948
20°	14215	14758	15102
25°	14128	14771	14988
30°	13966	14575	14622
35°	13717	14103	13934
40°	13176	13256	13047
45°	12277	12148	11901
50°	11240	11059	10493
55°	10096	9722	8871
60°	8954	8044	7658
65°	7889	6683	6950
70°	7056	5800	6619
75°	6609	5639	6694
80°	6434	5702	6372
85°	5137	4511	4678



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	832.6	3.8
10°-20°	2452.4	11.3
20°-30°	3772.7	17.3
30°-40°	4403.0	20.2
40°-50°	4091.5	18.8
50°-60°	3032.8	13.9
60°-70°	1854.0	8.5
70°-80°	1056.0	4.8
80°-90°	302.0	1.4
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°	7057.7	32.4
0°-40°	11460.6	52.6
0°-60°	18585.0	85.3
0°-90°	21797.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21797.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8740	8740	8740	8740	8740	
5°	8758	8717	8722	8715	8765	833
15°	8510	8506	8670	8841	8943	2402
25°	7931	7992	8291	8361	8413	3653
35°	6959	7013	7155	7097	7070	4336
45°	5376	5408	5320	5237	5212	4143
55°	3587	3496	3454	3208	3152	3219
65°	2065	1876	1749	1797	1819	2067
75°	1060	994	904	1030	1073	1134
85°	277	270	244	252	252	320
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8740.0	8740.0	8740.0	8740.0	8740.0
2.5°	8787.3	8737.7	8728.7	8708.4	8753.5
5°	8758.0	8717.4	8721.9	8715.2	8764.8
7.5°	8724.2	8694.9	8712.9	8710.6	8776.1
10°	8665.6	8649.8	8694.9	8744.5	8850.4
12.5°	8600.2	8584.4	8683.6	8809.8	8924.8
15°	8510.1	8505.5	8670.1	8841.4	8942.9
17.5°	8397.3	8404.1	8654.3	8800.9	8891.0
20°	8273.3	8284.6	8588.9	8708.4	8789.6
22.5°	8113.3	8151.6	8462.7	8561.8	8625.0
25°	7930.6	7991.5	8291.4	8361.3	8413.1
27.5°	7734.6	7795.4	8079.4	8115.5	8144.9
30°	7491.1	7576.7	7817.9	7822.5	7842.7
32.5°	7243.1	7319.8	7504.6	7484.3	7488.8
35°	6959.1	7013.1	7155.2	7096.6	7069.5
37.5°	6632.2	6661.5	6751.6	6663.8	6659.2
40°	6251.2	6289.5	6289.5	6167.8	6190.3
42.5°	5845.5	5858.9	5802.6	5687.6	5705.6
45°	5376.5	5408.1	5320.1	5236.8	5212.0
47.5°	4912.1	4943.7	4851.3	4754.4	4711.5
50°	4474.8	4459.0	4402.7	4238.1	4177.2
52.5°	4021.7	3972.1	3949.6	3708.4	3638.5
55°	3586.6	3496.5	3453.6	3207.9	3151.5
57.5°	3183.1	3020.8	2939.7	2748.1	2725.4
60°	2772.8	2590.2	2491.0	2367.0	2371.5
62.5°	2400.9	2209.2	2089.8	2053.7	2069.5
65°	2065.0	1875.6	1749.4	1796.7	1819.2
67.5°	1760.6	1605.1	1463.1	1573.5	1596.0
70°	1494.6	1370.6	1228.6	1391.0	1402.2
72.5°	1273.6	1172.3	1052.8	1206.0	1230.8
75°	1059.5	994.2	904.0	1030.2	1073.1
77.5°	872.4	820.6	768.7	845.4	892.7
80°	692.0	640.3	613.2	653.7	685.3
82.5°	489.2	455.4	428.3	457.6	473.4
85°	277.3	270.5	243.5	252.5	252.5
87.5°	63.1	72.1	81.2	74.4	63.1
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)