

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: P730241

Luminaire Tested: **HBLED-LD5-12HE-N-CLI-UNV-L835**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730241
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23769)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12HE-N-CLI-UNV-L835
Description: 12000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10801.0 lumens
Efficiency: N/A
Efficacy: 148.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

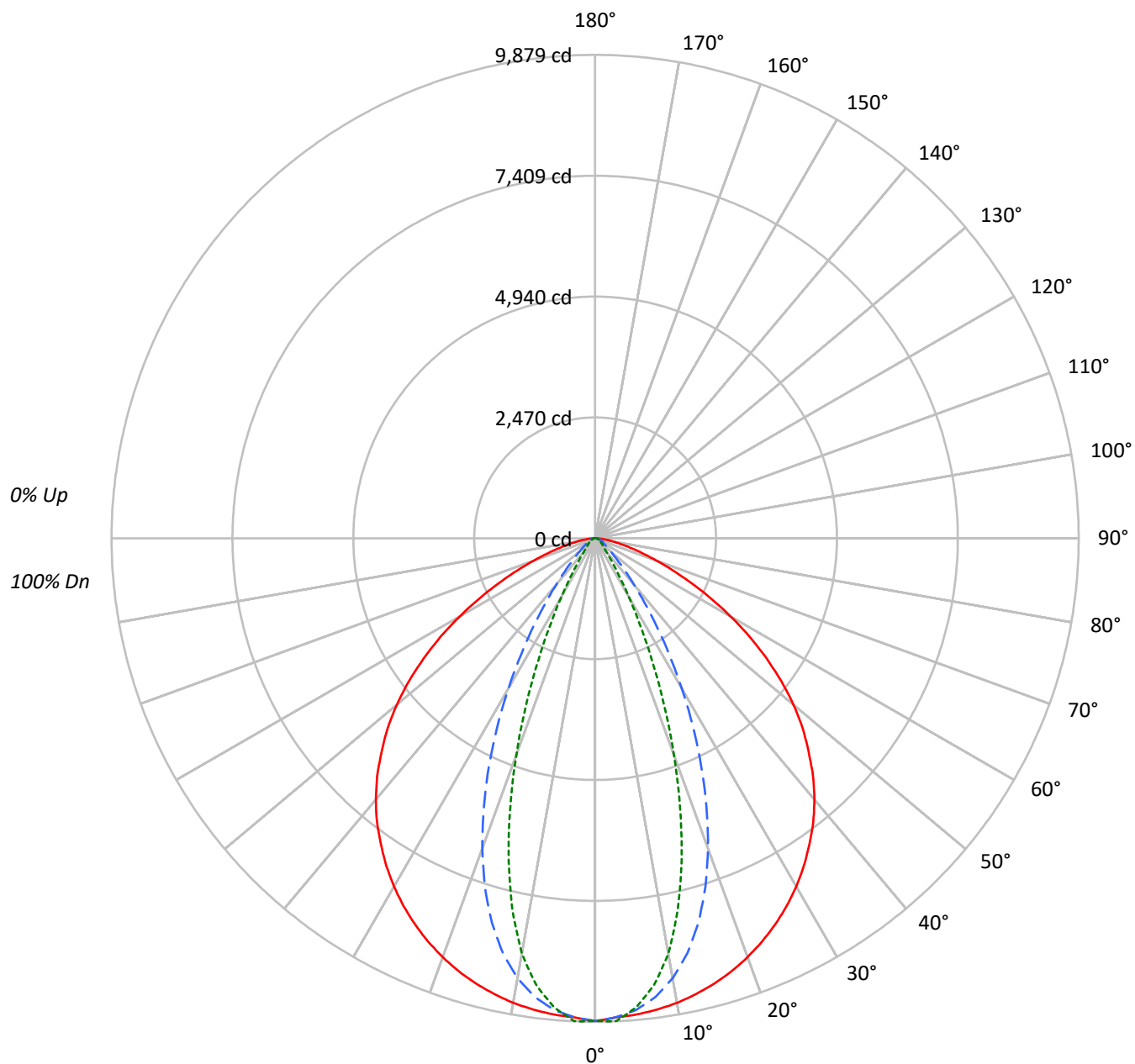
Input Watts (W): 72.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90		
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81		
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72		
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65		
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60		
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55		
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50		
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46		
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43		
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15929	15929	15929
5°	15834	15676	15594
10°	15807	14966	14123
15°	15743	13604	11406
20°	15649	11576	8084
25°	15509	9128	4884
30°	15321	6588	2510
35°	15044	4307	1254
40°	14687	2587	732
45°	14077	1545	547
50°	13277	1010	459
55°	12017	767	401
60°	10327	653	366
65°	8306	596	345
70°	6258	638	344
75°	4603	606	353
80°	3368	603	387
85°	2523	732	500



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	908.6	8.4
10°-20°	2260.4	20.9
20°-30°	2503.7	23.2
30°-40°	2005.9	18.6
40°-50°	1432.0	13.3
50°-60°	919.8	8.5
60°-70°	498.5	4.6
70°-80°	213.1	2.0
80°-90°	59.1	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°	5672.7	52.5
0°-40°	7678.7	71.1
0°-60°	10030.4	92.9
0°-90°	10801.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10801.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9866	9866	9866	9866	9866	
5°	9769	9806	9672	9641	9621	929
15°	9418	9124	8139	7192	6823	2657
25°	8706	7676	5124	3338	2742	4011
35°	7632	5521	2185	881	636	4772
45°	6165	3187	677	288	240	4752
55°	4269	1425	272	167	142	3804
65°	2174	585	156	108	90	2177
75°	738	214	97	68	57	820
85°	136	57	40	33	27	166
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9865.9	9865.9	9865.9	9865.9	9865.9
2.5°	9801.0	9862.3	9796.3	9837.3	9879.4
5°	9769.3	9805.7	9672.1	9641.4	9621.2
7.5°	9714.2	9703.8	9452.8	9290.2	9211.7
10°	9641.4	9557.2	9128.5	8771.1	8614.1
12.5°	9537.5	9364.0	8689.4	8061.7	7795.7
15°	9418.5	9123.9	8138.6	7192.4	6823.4
17.5°	9276.1	8843.3	7480.2	6260.2	5773.2
20°	9107.8	8504.5	6737.2	5269.7	4704.8
22.5°	8919.7	8113.7	5941.6	4282.4	3676.5
25°	8705.6	7676.1	5123.7	3338.2	2741.6
27.5°	8474.4	7190.3	4310.5	2494.3	1950.2
30°	8217.6	6664.4	3533.6	1798.5	1346.4
32.5°	7937.5	6105.3	2811.8	1264.8	920.8
35°	7632.5	5520.7	2185.1	881.3	636.0
37.5°	7320.2	4924.1	1650.4	623.0	456.3
40°	6968.4	4329.6	1227.4	456.3	347.1
42.5°	6590.6	3746.6	908.4	351.3	281.1
45°	6165.0	3186.9	676.6	287.9	239.6
47.5°	5752.5	2665.3	513.9	245.3	208.4
50°	5285.8	2194.5	402.2	214.1	182.9
52.5°	4790.6	1780.3	326.3	188.6	161.1
55°	4268.9	1424.8	272.3	167.3	142.4
57.5°	3740.4	1128.6	232.8	149.1	126.8
60°	3197.9	902.6	202.1	133.5	113.3
62.5°	2668.4	721.8	176.7	120.0	101.3
65°	2174.2	585.1	155.9	107.6	90.4
67.5°	1717.4	462.5	145.5	96.6	81.6
70°	1325.6	360.1	135.1	86.3	72.8
72.5°	1004.4	276.5	119.5	76.9	64.4
75°	737.9	214.1	97.2	67.6	56.6
77.5°	528.0	164.7	79.0	58.7	48.9
80°	362.2	122.7	64.9	50.4	41.6
82.5°	235.4	86.8	52.5	41.6	34.3
85°	136.2	56.6	39.5	32.7	27.0
87.5°	58.7	31.2	27.0	24.4	20.8
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)