

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: P730385

Luminaire Tested: **HBLED-LD5-15HE-N-CLI-UNV-L835**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730385
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-LD5-15HE-N-CLI-UNV-L835
Description: 15000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13805.0 lumens
Efficiency: N/A
Efficacy: 151.4 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

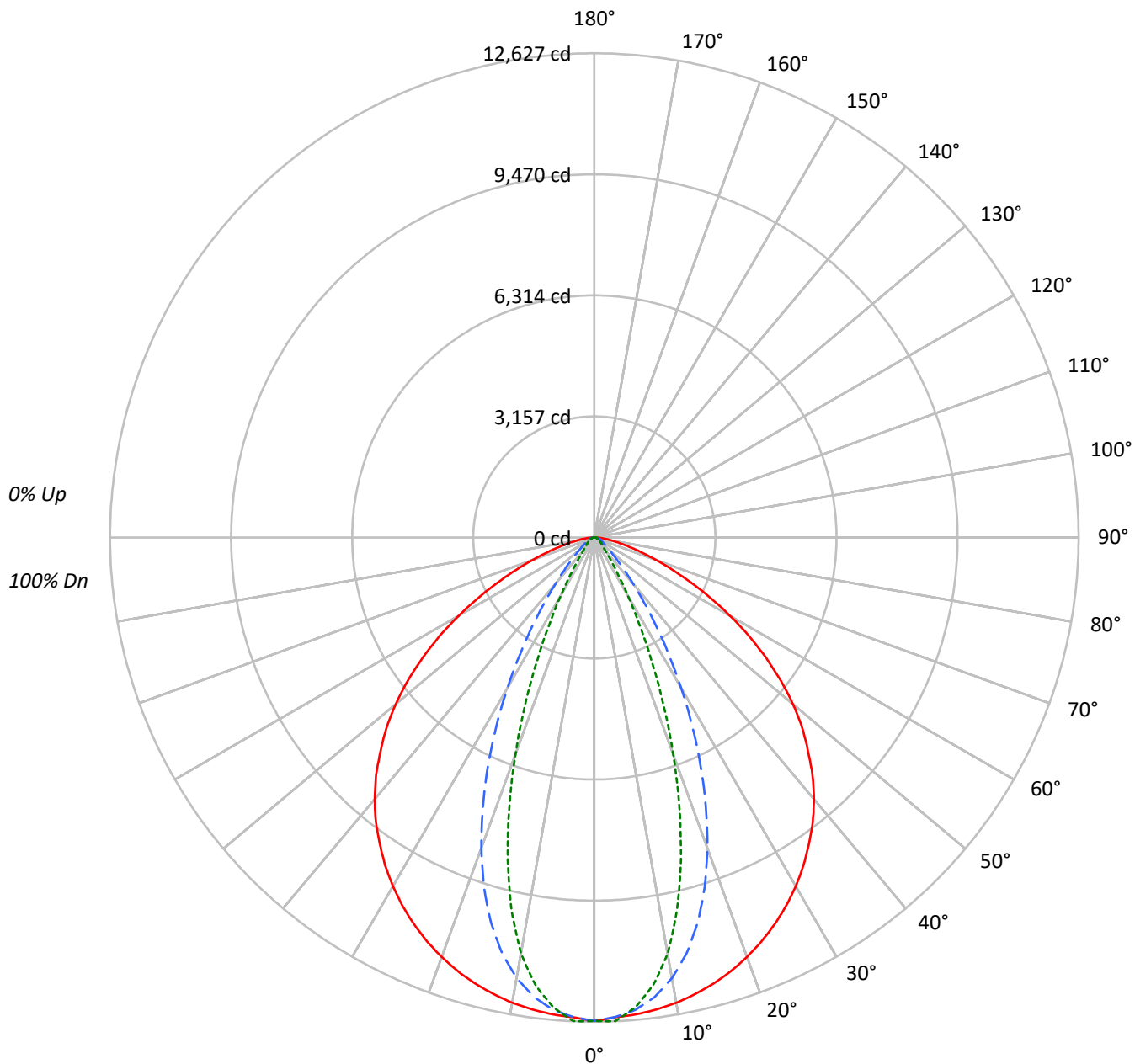
Input Watts (W): 91.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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°	20360	20360	20360
5°	20237	20036	19931
10°	20203	19129	18051
15°	20122	17388	14578
20°	20001	14795	10332
25°	19822	11667	6243
30°	19582	8420	3208
35°	19228	5505	1602
40°	18772	3307	935
45°	17992	1975	699
50°	16970	1291	587
55°	15359	980	512
60°	13199	834	468
65°	10617	761	442
70°	7998	815	439
75°	5883	775	452
80°	4304	772	495
85°	3223	936	639



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1161.3	8.4
10°-20°	2889.1	20.9
20°-30°	3200.1	23.2
30°-40°	2563.8	18.6
40°-50°	1830.2	13.3
50°-60°	1175.6	8.5
60°-70°	637.1	4.6
70°-80°	272.3	2.0
80°-90°	75.5	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°	7250.4	52.5
0°-40°	9814.3	71.1
0°-60°	12820.1	92.9
0°-90°	13805.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13805.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12610	12610	12610	12610	12610	
5°	12486	12533	12362	12323	12297	###
15°	12038	11661	10402	9193	8721	3397
25°	11127	9811	6549	4267	3504	5126
35°	9755	7056	2793	1126	813	6099
45°	7880	4073	865	368	306	6074
55°	5456	1821	348	214	182	4862
65°	2779	748	199	138	116	2783
75°	943	274	124	86	72	1048
85°	174	72	50	42	34	213
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12609.8	12609.8	12609.8	12609.8	12609.8
2.5°	12526.8	12605.2	12520.8	12573.3	12627.1
5°	12486.3	12532.9	12362.1	12322.9	12297.1
7.5°	12415.9	12402.6	12081.9	11874.0	11773.6
10°	12322.9	12215.3	11667.4	11210.5	11009.9
12.5°	12190.1	11968.3	11106.2	10303.9	9963.8
15°	12038.0	11661.4	10402.2	9192.8	8721.2
17.5°	11856.0	11302.8	9560.7	8001.2	7378.9
20°	11640.8	10869.8	8610.9	6735.3	6013.3
22.5°	11400.4	10370.3	7594.1	5473.4	4699.0
25°	11126.8	9811.0	6548.7	4266.6	3504.1
27.5°	10831.3	9190.1	5509.3	3188.0	2492.6
30°	10503.1	8517.9	4516.3	2298.7	1720.9
32.5°	10145.1	7803.3	3593.8	1616.6	1176.9
35°	9755.3	7056.1	2792.8	1126.4	812.9
37.5°	9356.1	6293.6	2109.4	796.3	583.1
40°	8906.5	5533.8	1568.8	583.1	443.6
42.5°	8423.6	4788.6	1161.0	448.9	359.3
45°	7879.7	4073.3	864.8	368.0	306.2
47.5°	7352.3	3406.5	656.9	313.5	266.3
50°	6755.9	2804.8	514.1	273.7	233.8
52.5°	6123.0	2275.4	417.1	241.1	205.9
55°	5456.1	1821.1	348.0	213.9	182.0
57.5°	4780.7	1442.5	297.5	190.6	162.1
60°	4087.3	1153.7	258.4	170.7	144.8
62.5°	3410.5	922.5	225.8	153.4	129.5
65°	2778.9	747.8	199.3	137.5	115.6
67.5°	2195.0	591.1	186.0	123.5	104.3
70°	1694.3	460.3	172.7	110.2	93.0
72.5°	1283.8	353.4	152.8	98.3	82.4
75°	943.1	273.7	124.2	86.4	72.4
77.5°	674.8	210.6	101.0	75.0	62.5
80°	462.9	156.8	83.0	64.4	53.2
82.5°	300.9	110.9	67.1	53.2	43.8
85°	174.0	72.4	50.5	41.8	34.5
87.5°	75.0	39.8	34.5	31.2	26.5
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)