

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: P730457

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730457
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-LD5-15SE-N-CLI-UNV-L835
Description: 15000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13647.0 lumens
Efficiency: N/A
Efficacy: 145.2 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

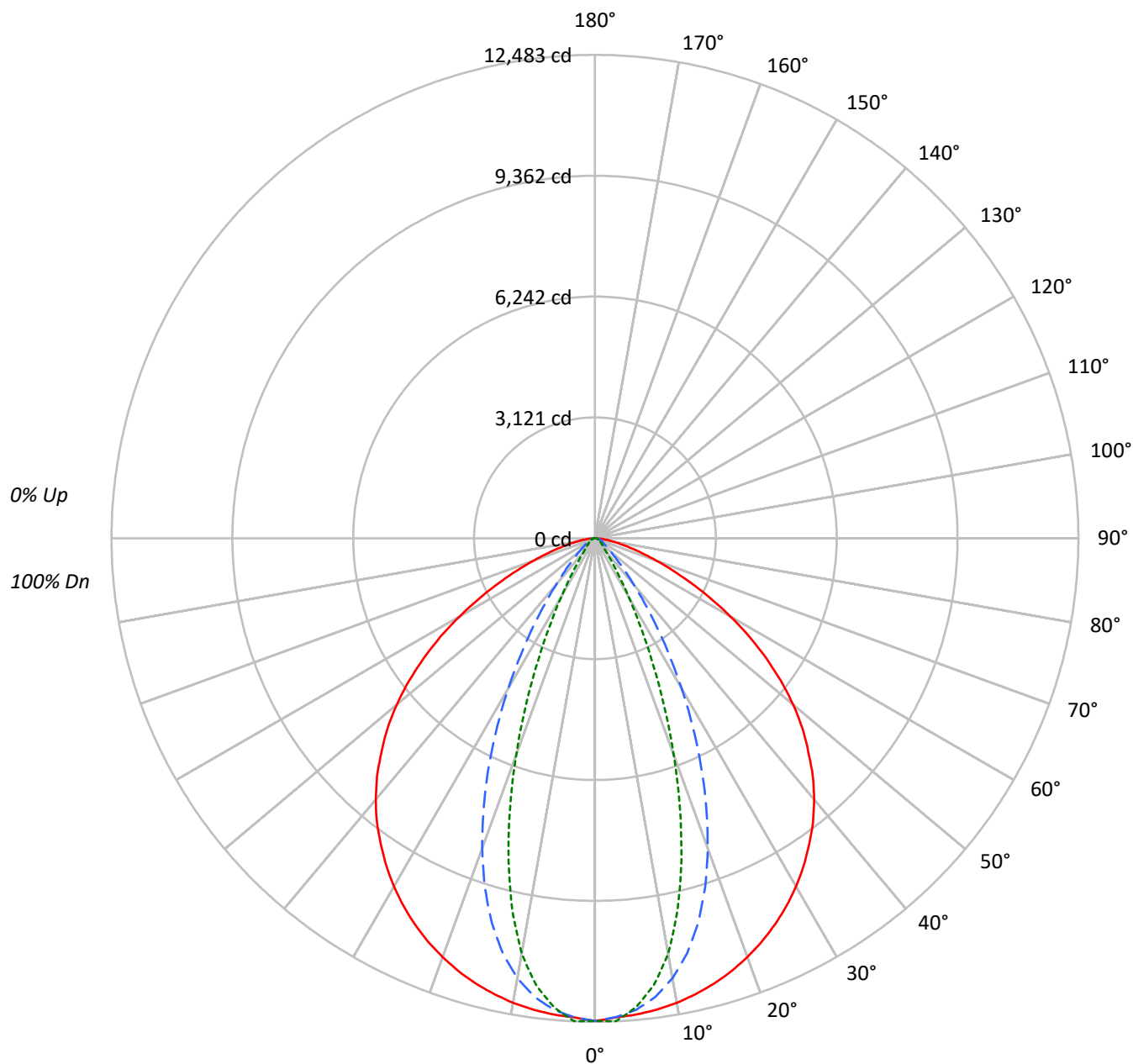
Input Watts (W): 94
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20127	20127	20127
5°	20006	19807	19702
10°	19972	18910	17844
15°	19892	17189	14411
20°	19772	14626	10214
25°	19595	11533	6171
30°	19358	8324	3172
35°	19008	5442	1584
40°	18557	3269	924
45°	17786	1952	691
50°	16776	1277	580
55°	15183	968	506
60°	13047	825	462
65°	10495	753	436
70°	7907	806	434
75°	5816	766	447
80°	4255	762	489
85°	3186	924	632



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1148.0	8.4
10°-20°	2856.0	20.9
20°-30°	3163.4	23.2
30°-40°	2534.5	18.6
40°-50°	1809.3	13.3
50°-60°	1162.1	8.5
60°-70°	629.8	4.6
70°-80°	269.2	2.0
80°-90°	74.7	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°	7167.5	52.5
0°-40°	9701.9	71.1
0°-60°	12673.3	92.9
0°-90°	13647.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13647.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12466	12466	12466	12466	12466	
5°	12343	12389	12221	12182	12156	###
15°	11900	11528	10283	9088	8621	3358
25°	10999	9699	6474	4218	3464	5067
35°	9644	6975	2761	1114	804	6030
45°	7790	4027	855	364	303	6004
55°	5394	1800	344	211	180	4807
65°	2747	739	197	136	114	2751
75°	932	270	123	85	72	1036
85°	172	72	50	41	34	210
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12465.5	12465.5	12465.5	12465.5	12465.5
2.5°	12383.5	12461.0	12377.5	12429.4	12482.6
5°	12343.4	12389.4	12220.6	12181.9	12156.3
7.5°	12273.8	12260.7	11943.6	11738.1	11638.9
10°	12181.9	12075.5	11533.9	11082.2	10883.9
12.5°	12050.6	11831.3	10979.1	10185.9	9849.8
15°	11900.2	11528.0	10283.1	9087.5	8621.4
17.5°	11720.3	11173.4	9451.2	7909.7	7294.4
20°	11507.6	10745.4	8512.4	6658.2	5944.5
22.5°	11270.0	10251.6	7507.2	5410.7	4645.2
25°	10999.4	9698.8	6473.8	4217.8	3464.0
27.5°	10707.3	9084.9	5446.2	3151.5	2464.1
30°	10382.9	8420.5	4464.6	2272.4	1701.2
32.5°	10029.0	7714.0	3552.7	1598.1	1163.4
35°	9643.6	6975.4	2760.8	1113.5	803.6
37.5°	9249.0	6221.6	2085.2	787.2	576.5
40°	8804.5	5470.5	1550.8	576.5	438.6
42.5°	8327.2	4733.8	1147.7	443.8	355.2
45°	7789.5	4026.7	854.9	363.8	302.7
47.5°	7268.2	3367.5	649.3	309.9	263.3
50°	6678.6	2772.7	508.2	270.5	231.1
52.5°	6052.9	2249.4	412.3	238.3	203.5
55°	5393.7	1800.3	344.0	211.4	179.9
57.5°	4726.0	1426.0	294.1	188.4	160.2
60°	4040.5	1140.4	255.4	168.7	143.1
62.5°	3371.5	912.0	223.2	151.7	128.0
65°	2747.1	739.3	197.0	135.9	114.2
67.5°	2169.9	584.3	183.8	122.1	103.1
70°	1674.9	455.0	170.7	109.0	91.9
72.5°	1269.1	349.3	151.0	97.2	81.4
75°	932.3	270.5	122.8	85.4	71.6
77.5°	667.1	208.2	99.8	74.2	61.7
80°	457.6	155.0	82.0	63.7	52.6
82.5°	297.5	109.7	66.3	52.6	43.3
85°	172.0	71.6	49.9	41.4	34.1
87.5°	74.2	39.4	34.1	30.9	26.2
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)