

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: P730463

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730463
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23767)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-15SE-N-UNV-L835
Description: 15000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14750.0 lumens
Efficiency: N/A
Efficacy: 156.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

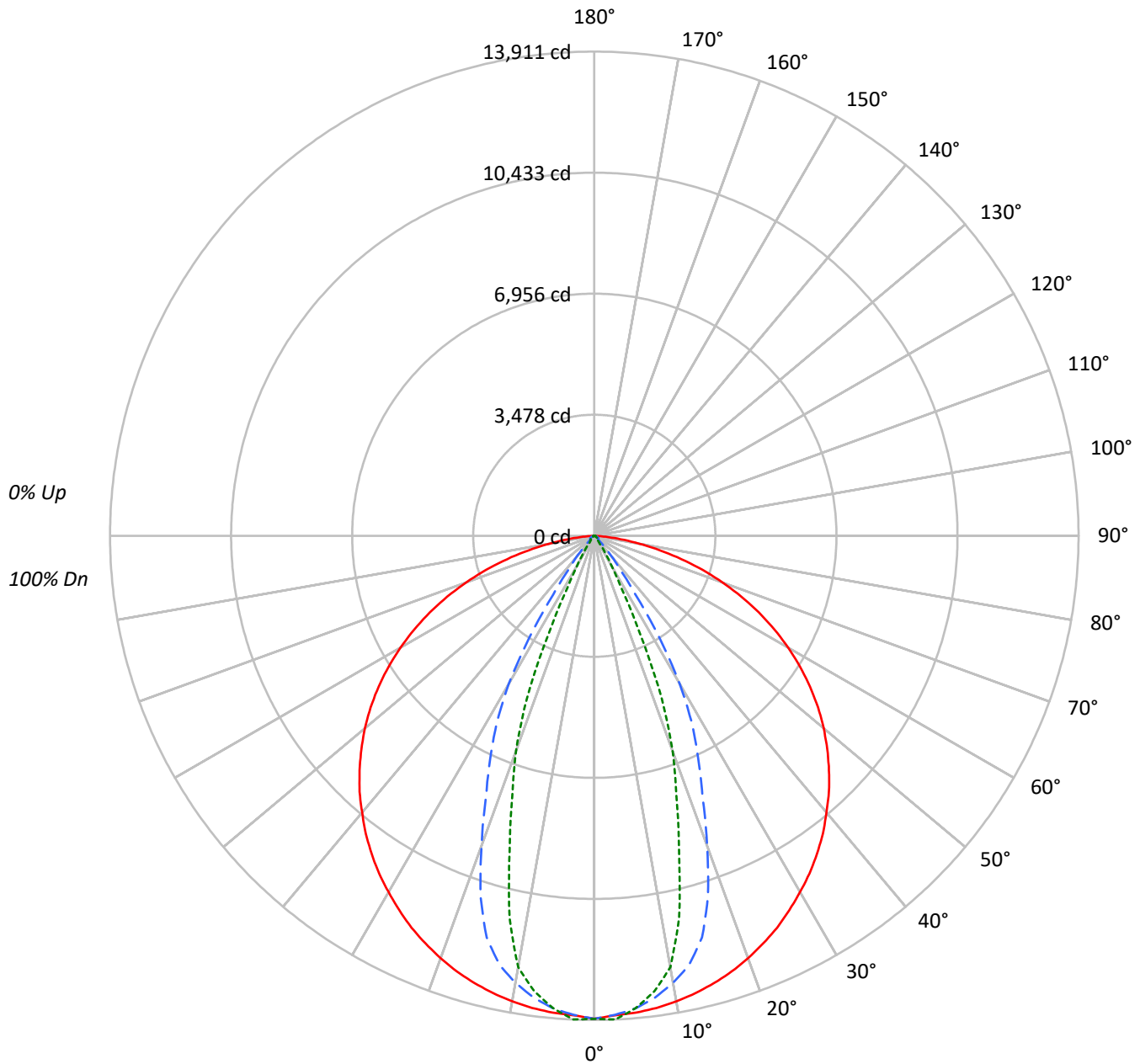
Input Watts (W): 94
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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	76	81	77	74	73		
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66		
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60		
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55		
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51		
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47		
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44		
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22406	22406	22406
5°	22287	22090	22080
10°	22273	21382	20632
15°	22241	19976	15702
20°	22189	16284	11302
25°	22133	12591	5568
30°	22035	9151	1806
35°	21983	4060	465
40°	21868	1649	313
45°	21770	463	333
50°	21600	328	370
55°	21289	390	158
60°	20764	435	96
65°	19910	277	113
70°	18496	246	140
75°	16181	185	193
80°	12099	227	276
85°	5993	293	367



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1287.8	8.7
10°-20°	3220.3	21.8
20°-30°	3488.0	23.6
30°-40°	2583.0	17.5
40°-50°	1860.5	12.6
50°-60°	1152.0	7.8
60°-70°	708.5	4.8
70°-80°	373.5	2.5
80°-90°	76.4	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°	7996.2	54.2
0°-40°	10579.2	71.7
0°-60°	13591.6	92.1
0°-90°	14750.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14750.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13878	13878	13878	13878	13878	
5°	13751	13802	13629	13639	13623	###
15°	13306	12997	11950	10163	9394	3756
25°	12424	11380	7068	4446	3125	5725
35°	11153	7863	2060	485	236	6977
45°	9534	4430	203	146	146	7353
55°	7563	912	139	125	56	6751
65°	5211	96	73	46	30	5142
75°	2594	22	30	39	31	2740
85°	324	9	16	24	20	489
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13877.5	13877.5	13877.5	13877.5	13877.5
2.5°	13788.3	13876.2	13772.5	13849.8	13911.1
5°	13750.7	13801.6	13629.2	13639.1	13623.3
7.5°	13684.7	13672.8	13383.0	13256.3	13200.8
10°	13585.0	13506.4	13041.7	12777.0	12584.2
12.5°	13456.3	13280.7	12615.9	11774.2	11251.3
15°	13305.8	12996.8	11950.4	10162.7	9393.6
17.5°	13126.2	12688.5	10862.5	8517.5	7831.0
20°	12914.3	12344.5	9477.4	7246.7	6578.0
22.5°	12677.9	11926.0	8132.0	6022.7	5068.8
25°	12423.8	11380.1	7067.8	4446.2	3125.2
27.5°	12130.0	10678.3	6069.6	2618.9	1595.0
30°	11819.1	9833.2	4908.4	1408.8	968.5
32.5°	11505.5	8875.3	3473.2	880.0	549.3
35°	11153.0	7862.6	2059.7	484.6	235.7
37.5°	10785.2	6934.5	1217.3	220.5	151.2
40°	10375.3	6086.2	782.3	146.5	148.5
42.5°	9979.2	5295.3	440.4	144.6	147.2
45°	9534.2	4429.7	202.7	146.5	145.9
47.5°	9074.0	3532.6	131.3	147.9	147.9
50°	8599.4	2525.8	130.7	151.2	147.2
52.5°	8098.3	1575.9	136.0	150.5	120.8
55°	7562.9	912.4	138.6	125.4	56.1
57.5°	7008.4	538.0	140.0	72.0	31.7
60°	6430.1	297.7	134.7	53.5	29.7
62.5°	5833.9	141.9	106.3	50.2	29.0
65°	5211.4	96.4	72.6	46.2	29.7
67.5°	4565.1	74.6	57.4	43.6	30.4
70°	3918.1	55.4	52.2	43.6	29.7
72.5°	3260.6	37.6	43.6	44.2	29.7
75°	2593.8	22.5	29.7	39.0	31.0
77.5°	1933.0	13.8	23.1	40.3	37.6
80°	1301.2	11.9	24.4	37.6	29.7
82.5°	763.8	10.6	23.8	29.0	23.8
85°	323.5	8.6	15.8	23.8	19.8
87.5°	60.7	7.3	12.6	19.1	17.2
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)