

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: P730446

Luminaire Tested: **HBLED-LD5-15SE-N-CL-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730446
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23768)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-15SE-N-CL-UNV-L840
Description: 15000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14214.0 lumens
Efficiency: N/A
Efficacy: 151.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

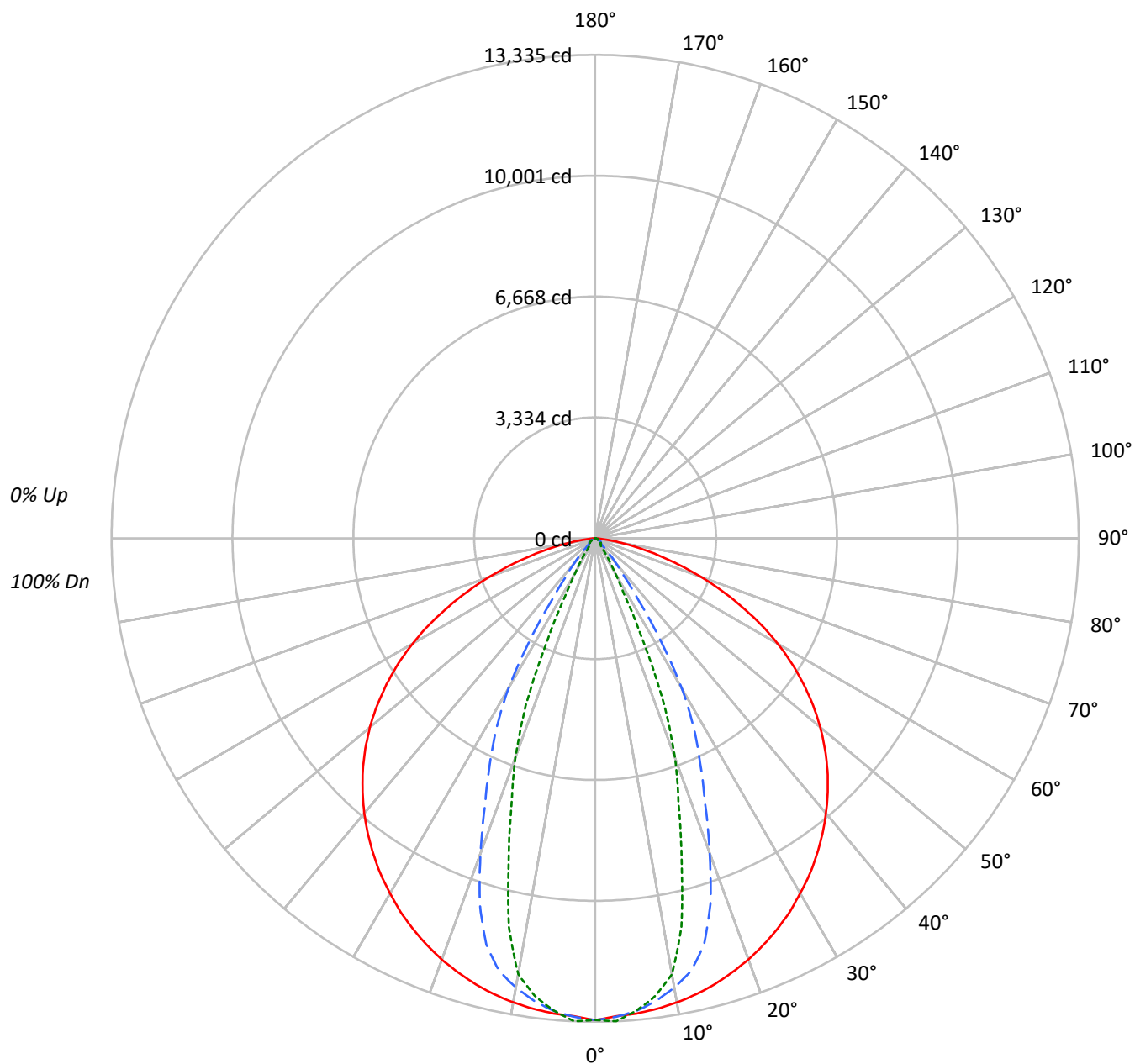
Input Watts (W): 94
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90		
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81		
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73		
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66		
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60		
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55		
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51		
8	72	61	55	50	71	61	54	50	60	54	49	59	53	49	58	53	49	47		
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44		
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21459	21459	21459
5°	21327	21215	21200
10°	21312	20629	20020
15°	21288	19399	15394
20°	21247	15875	11042
25°	21180	12231	5611
30°	21080	8926	2041
35°	21004	4099	710
40°	20875	1860	490
45°	20689	694	497
50°	20360	504	523
55°	19757	530	398
60°	18775	567	351
65°	17027	431	286
70°	14598	311	263
75°	11158	276	251
80°	6982	259	272
85°	2205	302	367



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1237.3	8.7
10°-20°	3116.9	21.9
20°-30°	3394.5	23.9
30°-40°	2539.2	17.9
40°-50°	1825.8	12.8
50°-60°	1121.3	7.9
60°-70°	645.2	4.5
70°-80°	288.0	2.0
80°-90°	45.7	0.3
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°	7748.8	54.5
0°-40°	10288.0	72.4
0°-60°	13235.1	93.1
0°-90°	14214.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14214.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13290	13290	13290	13290	13290	
5°	13158	13220	13090	13102	13080	###
15°	12736	12491	11605	9967	9209	3595
25°	11889	11036	6866	4405	3150	5480
35°	10656	7643	2080	611	360	6666
45°	9061	4294	304	225	218	6980
55°	7019	892	188	182	142	6258
65°	4457	98	113	94	75	4412
75°	1789	59	44	46	40	1941
85°	119	12	16	21	20	237
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13290.4	13290.4	13290.4	13290.4	13290.4
2.5°	13198.0	13284.3	13211.6	13276.9	13334.7
5°	13158.5	13220.4	13089.8	13102.0	13080.3
7.5°	13090.5	13105.5	12869.5	12778.4	12734.1
10°	12999.4	12959.3	12582.5	12365.6	12211.2
12.5°	12884.5	12751.8	12225.4	11450.8	10989.0
15°	12735.5	12491.3	11605.2	9966.9	9209.2
17.5°	12558.0	12219.3	10578.2	8306.7	7651.1
20°	12365.6	11918.7	9239.1	7062.8	6426.2
22.5°	12138.4	11534.5	7918.4	5874.0	5000.1
25°	11888.8	11036.0	6865.6	4405.0	3149.6
27.5°	11619.5	10378.3	5891.0	2701.3	1703.0
30°	11306.6	9577.8	4787.9	1516.0	1095.0
32.5°	11001.2	8644.7	3420.2	1009.9	699.8
35°	10656.4	7643.0	2079.7	611.4	360.4
37.5°	10291.2	6732.3	1301.7	332.5	248.9
40°	9904.3	5868.5	882.7	236.0	232.6
42.5°	9490.7	5087.1	552.9	224.4	231.9
45°	9060.9	4294.1	304.0	225.1	217.7
47.5°	8594.4	3433.2	212.2	212.9	212.2
50°	8105.4	2462.6	200.7	210.2	208.1
52.5°	7578.3	1528.9	201.3	205.4	184.3
55°	7018.6	892.3	188.4	182.3	141.5
57.5°	6430.3	556.3	184.3	150.3	127.2
60°	5814.1	293.8	175.5	135.4	108.8
62.5°	5157.8	144.9	140.7	115.6	89.1
65°	4456.7	98.0	112.9	93.8	74.8
67.5°	3779.3	88.4	85.0	76.8	65.3
70°	3092.4	80.9	65.9	67.3	55.8
72.5°	2418.5	73.4	53.0	57.8	46.9
75°	1788.7	59.2	44.2	45.5	40.2
77.5°	1244.6	46.3	34.7	38.8	37.4
80°	750.9	29.3	27.9	32.0	29.3
82.5°	363.8	19.0	21.8	25.1	23.1
85°	119.0	11.5	16.3	21.1	19.8
87.5°	15.0	6.8	13.6	18.4	17.0
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)