

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: P730464

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730464
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-L840
Description: 15000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15175.0 lumens
Efficiency: N/A
Efficacy: 161.4 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

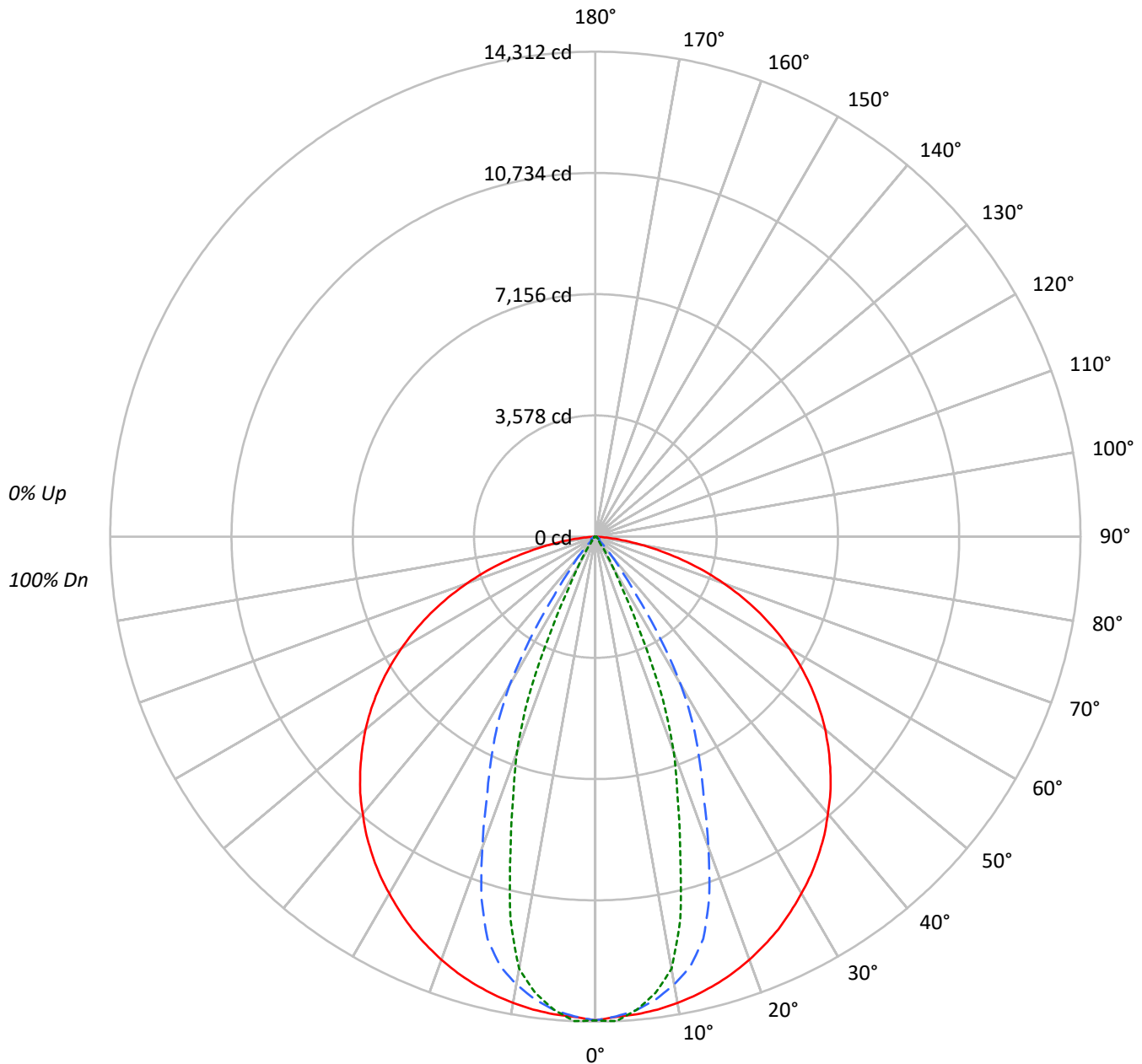
Input Watts (W): 94
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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	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°	23052	23052	23052
5°	22929	22726	22716
10°	22914	21998	21226
15°	22882	20551	16154
20°	22829	16753	11628
25°	22771	12954	5728
30°	22670	9415	1858
35°	22616	4177	478
40°	22498	1696	322
45°	22397	476	343
50°	22223	338	381
55°	21903	401	163
60°	21362	447	99
65°	20483	285	117
70°	19029	254	144
75°	16647	191	199
80°	12447	233	285
85°	6165	302	376



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1325.0	8.7
10°-20°	3313.1	21.8
20°-30°	3588.5	23.6
30°-40°	2657.5	17.5
40°-50°	1914.1	12.6
50°-60°	1185.2	7.8
60°-70°	728.9	4.8
70°-80°	384.2	2.5
80°-90°	78.7	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°	8226.5	54.2
0°-40°	10884.0	71.7
0°-60°	13983.2	92.1
0°-90°	15175.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15175.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14277	14277	14277	14277	14277	
5°	14147	14199	14022	14032	14016	###
15°	13689	13371	12295	10456	9664	3864
25°	12782	11708	7271	4574	3215	5889
35°	11474	8089	2119	498	242	7179
45°	9809	4557	208	151	150	7565
55°	7781	939	143	129	58	6946
65°	5362	99	75	48	31	5290
75°	2668	23	31	40	32	2819
85°	333	9	16	24	20	503
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14277.3	14277.3	14277.3	14277.3	14277.3
2.5°	14185.6	14276.0	14169.4	14248.8	14312.0
5°	14146.9	14199.2	14022.0	14032.1	14015.9
7.5°	14079.0	14066.8	13768.6	13638.2	13581.2
10°	13976.5	13895.6	13417.5	13145.1	12946.8
12.5°	13844.0	13663.4	12979.4	12113.4	11575.5
15°	13689.1	13371.3	12294.8	10455.5	9664.2
17.5°	13504.4	13054.1	11175.4	8762.9	8056.6
20°	13286.4	12700.2	9750.5	7455.5	6767.5
22.5°	13043.2	12269.6	8366.3	6196.3	5214.8
25°	12781.7	11708.0	7271.4	4574.4	3215.3
27.5°	12479.5	10986.0	6244.5	2694.4	1641.0
30°	12159.6	10116.6	5049.8	1449.4	996.4
32.5°	11837.0	9131.1	3573.2	905.4	565.1
35°	11474.3	8089.2	2119.1	498.5	242.5
37.5°	11096.0	7134.3	1252.4	226.9	155.5
40°	10674.2	6261.5	804.8	150.8	152.8
42.5°	10266.7	5447.8	453.0	148.7	151.5
45°	9808.9	4557.4	208.5	150.8	150.1
47.5°	9335.5	3634.3	135.1	152.1	152.1
50°	8847.2	2598.6	134.5	155.5	151.5
52.5°	8331.7	1621.3	139.9	154.9	124.3
55°	7780.9	938.6	142.6	129.0	57.8
57.5°	7210.3	553.5	144.0	74.0	32.6
60°	6615.3	306.3	138.5	55.0	30.6
62.5°	6002.0	146.0	109.3	51.7	29.9
65°	5361.5	99.2	74.7	47.5	30.6
67.5°	4696.6	76.7	59.1	44.8	31.2
70°	4031.0	57.0	53.7	44.8	30.6
72.5°	3354.6	38.7	44.8	45.5	30.6
75°	2668.5	23.1	30.6	40.1	31.9
77.5°	1988.7	14.2	23.8	41.4	38.7
80°	1338.7	12.2	25.1	38.7	30.6
82.5°	785.9	10.9	24.5	29.9	24.5
85°	332.8	8.9	16.3	24.5	20.3
87.5°	62.5	7.5	12.9	19.7	17.7
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)