

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: P730461

Luminaire Tested: **HBLED-LD5-15SE-N-UNV-L740**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730461
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-L740
Description: 15000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15898.0 lumens
Efficiency: N/A
Efficacy: 169.1 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

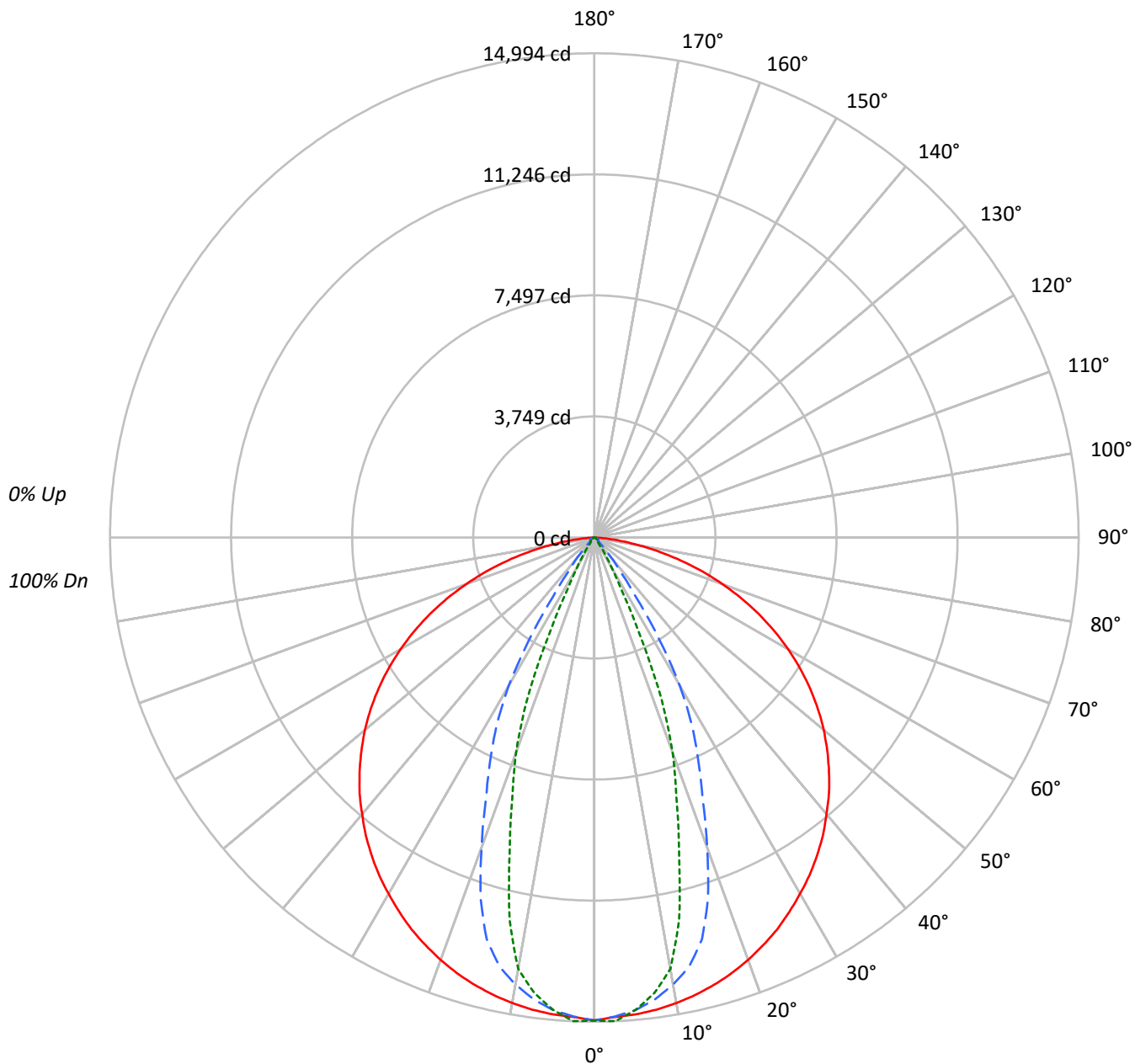
Input Watts (W): 94
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	24150	24150	24150
5°	24021	23809	23799
10°	24006	23046	22237
15°	23972	21530	16924
20°	23916	17551	12182
25°	23856	13571	6001
30°	23750	9863	1946
35°	23694	4376	501
40°	23570	1777	337
45°	23464	499	359
50°	23282	354	399
55°	22946	421	170
60°	22380	469	103
65°	21459	299	122
70°	19936	265	151
75°	17440	200	208
80°	13040	245	298
85°	6460	317	395



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1388.1	8.7
10°-20°	3470.9	21.8
20°-30°	3759.5	23.6
30°-40°	2784.1	17.5
40°-50°	2005.3	12.6
50°-60°	1241.6	7.8
60°-70°	763.6	4.8
70°-80°	402.5	2.5
80°-90°	82.4	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°	8618.5	54.2
0°-40°	11402.6	71.7
0°-60°	14649.5	92.1
0°-90°	15898.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15898.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14958	14958	14958	14958	14958	
5°	14821	14876	14690	14701	14684	###
15°	14341	14008	12880	10954	10125	4048
25°	13391	12266	7618	4792	3368	6170
35°	12021	8475	2220	522	254	7521
45°	10276	4774	218	158	157	7925
55°	8152	983	149	135	60	7277
65°	5617	104	78	50	32	5542
75°	2796	24	32	42	33	2953
85°	349	9	17	26	21	527
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14957.6	14957.6	14957.6	14957.6	14957.6
2.5°	14861.5	14956.2	14844.4	14927.7	14993.9
5°	14820.9	14875.7	14690.0	14700.7	14683.6
7.5°	14749.8	14737.0	14424.6	14288.0	14228.2
10°	14642.4	14557.7	14056.8	13771.4	13563.6
12.5°	14503.6	14314.3	13597.8	12690.6	12127.0
15°	14341.4	14008.4	12880.5	10953.7	10124.7
17.5°	14147.8	13676.1	11707.9	9180.4	8440.5
20°	13919.4	13305.3	10215.0	7810.7	7090.0
22.5°	13664.6	12854.2	8764.9	6491.5	5463.3
25°	13390.7	12265.8	7617.9	4792.3	3368.5
27.5°	13074.1	11509.4	6542.0	2822.8	1719.1
30°	12739.0	10598.6	5290.4	1518.4	1043.9
32.5°	12401.0	9566.1	3743.5	948.5	592.0
35°	12021.0	8474.6	2220.0	522.3	254.1
37.5°	11624.6	7474.2	1312.1	237.7	163.0
40°	11182.8	6559.8	843.2	157.9	160.1
42.5°	10755.9	5707.4	474.6	155.8	158.7
45°	10276.2	4774.5	218.4	157.9	157.2
47.5°	9780.3	3807.5	141.6	159.4	159.4
50°	9268.7	2722.4	140.9	163.0	158.7
52.5°	8728.6	1698.5	146.6	162.3	130.2
55°	8151.6	983.4	149.4	135.2	60.5
57.5°	7553.9	579.9	150.9	77.6	34.2
60°	6930.5	320.9	145.1	57.6	32.0
62.5°	6288.0	153.0	114.5	54.1	31.3
65°	5617.0	103.9	78.2	49.8	32.0
67.5°	4920.4	80.4	61.9	47.0	32.7
70°	4223.1	59.7	56.2	47.0	32.0
72.5°	3514.4	40.6	47.0	47.6	32.0
75°	2795.7	24.2	32.0	42.0	33.4
77.5°	2083.4	14.9	24.9	43.4	40.6
80°	1402.4	12.8	26.3	40.6	32.0
82.5°	823.3	11.4	25.6	31.3	25.6
85°	348.7	9.3	17.1	25.6	21.3
87.5°	65.5	7.8	13.5	20.6	18.5
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)