

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: P730393

Luminaire Tested: **HBLED-LD5-15HE-N-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730393
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-LD5-15HE-N-UNV-L850
Description: 15000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15650.9 lumens
Efficiency: N/A
Efficacy: 171.6 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

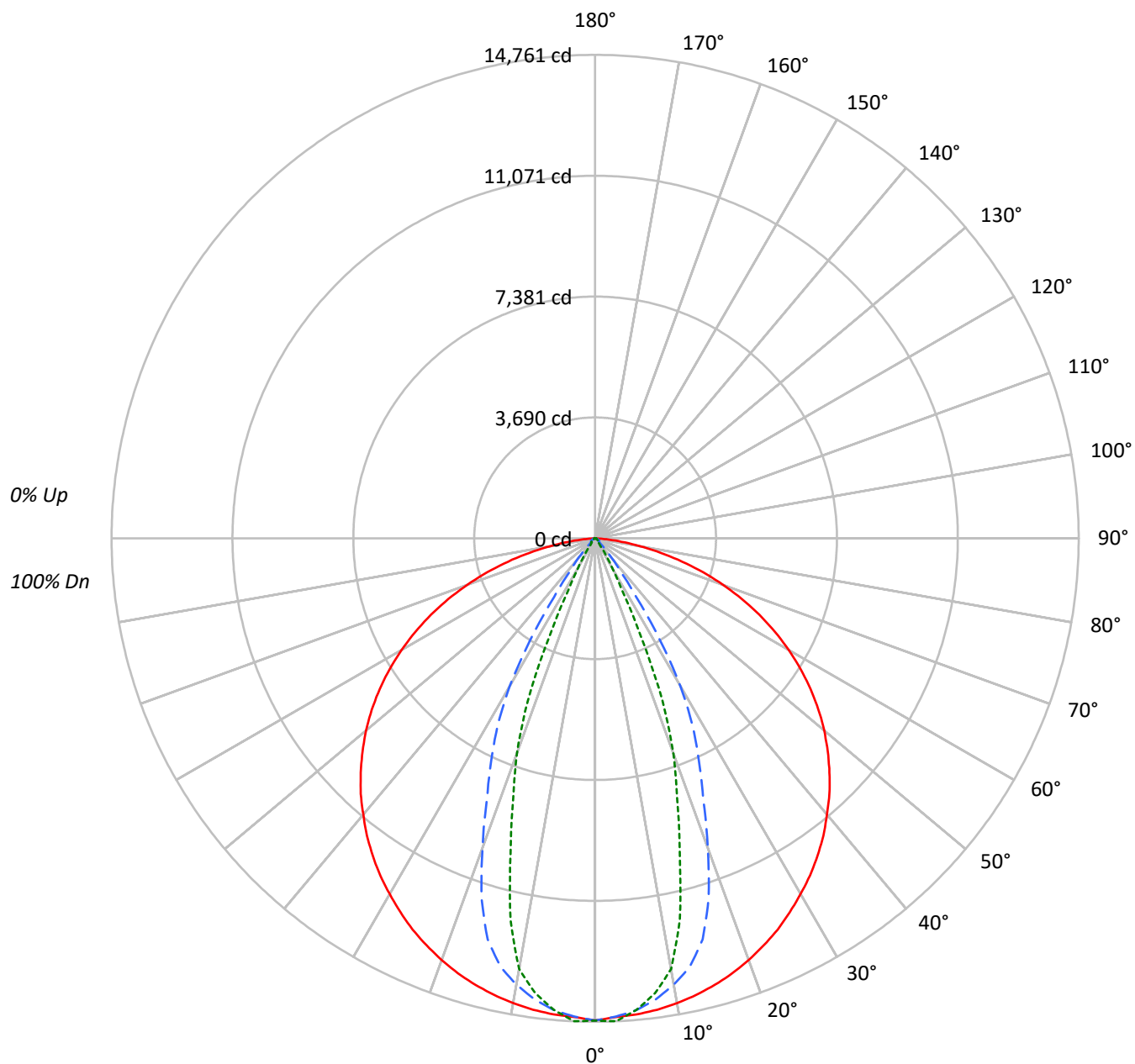
Input Watts (W): 91.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	23775	23775	23775
5°	23648	23439	23429
10°	23633	22688	21892
15°	23600	21196	16661
20°	23545	17279	11993
25°	23485	13360	5908
30°	23381	9710	1916
35°	23326	4308	493
40°	23204	1750	332
45°	23100	491	353
50°	22920	348	392
55°	22590	414	168
60°	22032	461	102
65°	21126	294	120
70°	19626	262	149
75°	17169	197	205
80°	12837	241	293
85°	6360	311	389



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1366.5	8.7
10°-20°	3417.0	21.8
20°-30°	3701.1	23.6
30°-40°	2740.8	17.5
40°-50°	1974.1	12.6
50°-60°	1222.3	7.8
60°-70°	751.7	4.8
70°-80°	396.3	2.5
80°-90°	81.1	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°	8484.6	54.2
0°-40°	11225.4	71.7
0°-60°	14421.9	92.1
0°-90°	15650.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15650.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14725	14725	14725	14725	14725	
5°	14591	14645	14462	14472	14456	###
15°	14118	13791	12680	10784	9967	3986
25°	13183	12075	7500	4718	3316	6074
35°	11834	8343	2186	514	250	7404
45°	10117	4700	215	156	155	7802
55°	8025	968	147	133	60	7164
65°	5530	102	77	49	32	5456
75°	2752	24	32	41	33	2907
85°	343	9	17	25	21	519
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14725.2	14725.2	14725.2	14725.2	14725.2
2.5°	14630.6	14723.8	14613.8	14695.8	14760.9
5°	14590.7	14644.6	14461.8	14472.3	14455.5
7.5°	14520.6	14508.0	14200.5	14066.0	14007.2
10°	14414.9	14331.5	13838.4	13557.5	13352.9
12.5°	14278.3	14091.9	13386.6	12493.4	11938.6
15°	14118.5	13790.7	12680.4	10783.5	9967.4
17.5°	13928.0	13463.6	11526.0	9037.8	8309.3
20°	13703.1	13098.6	10056.3	7689.4	6979.8
22.5°	13452.3	12654.5	8628.8	6390.6	5378.4
25°	13182.7	12075.2	7499.5	4717.8	3316.1
27.5°	12871.0	11330.6	6440.4	2778.9	1692.4
30°	12541.0	10433.9	5208.2	1494.8	1027.7
32.5°	12208.3	9417.5	3685.3	933.8	582.8
35°	11834.2	8342.9	2185.5	514.2	250.1
37.5°	11444.0	7358.0	1291.7	234.0	160.4
40°	11009.0	6457.9	830.1	155.5	157.6
42.5°	10588.8	5618.7	467.3	153.4	156.2
45°	10116.6	4700.3	215.0	155.5	154.8
47.5°	9628.3	3748.3	139.4	156.9	156.9
50°	9124.7	2680.1	138.7	160.4	156.2
52.5°	8593.0	1672.1	144.3	159.7	128.2
55°	8024.9	968.1	147.1	133.1	59.6
57.5°	7436.5	570.9	148.5	76.4	33.6
60°	6822.8	315.9	142.9	56.7	31.5
62.5°	6190.3	150.6	112.8	53.3	30.8
65°	5529.7	102.3	77.0	49.0	31.5
67.5°	4843.9	79.1	60.9	46.2	32.2
70°	4157.4	58.8	55.4	46.2	31.5
72.5°	3459.8	39.9	46.2	46.9	31.5
75°	2752.2	23.8	31.5	41.4	32.9
77.5°	2051.0	14.7	24.5	42.7	39.9
80°	1380.6	12.6	25.9	39.9	31.5
82.5°	810.5	11.2	25.2	30.8	25.2
85°	343.3	9.1	16.8	25.2	21.0
87.5°	64.4	7.7	13.3	20.3	18.2
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)