

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: P730459

Luminaire Tested: **HBLED-LD5-15SE-N-CLI-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730459
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23769)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-15SE-N-CLI-UNV-L850
Description: 15000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14316.0 lumens
Efficiency: N/A
Efficacy: 152.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

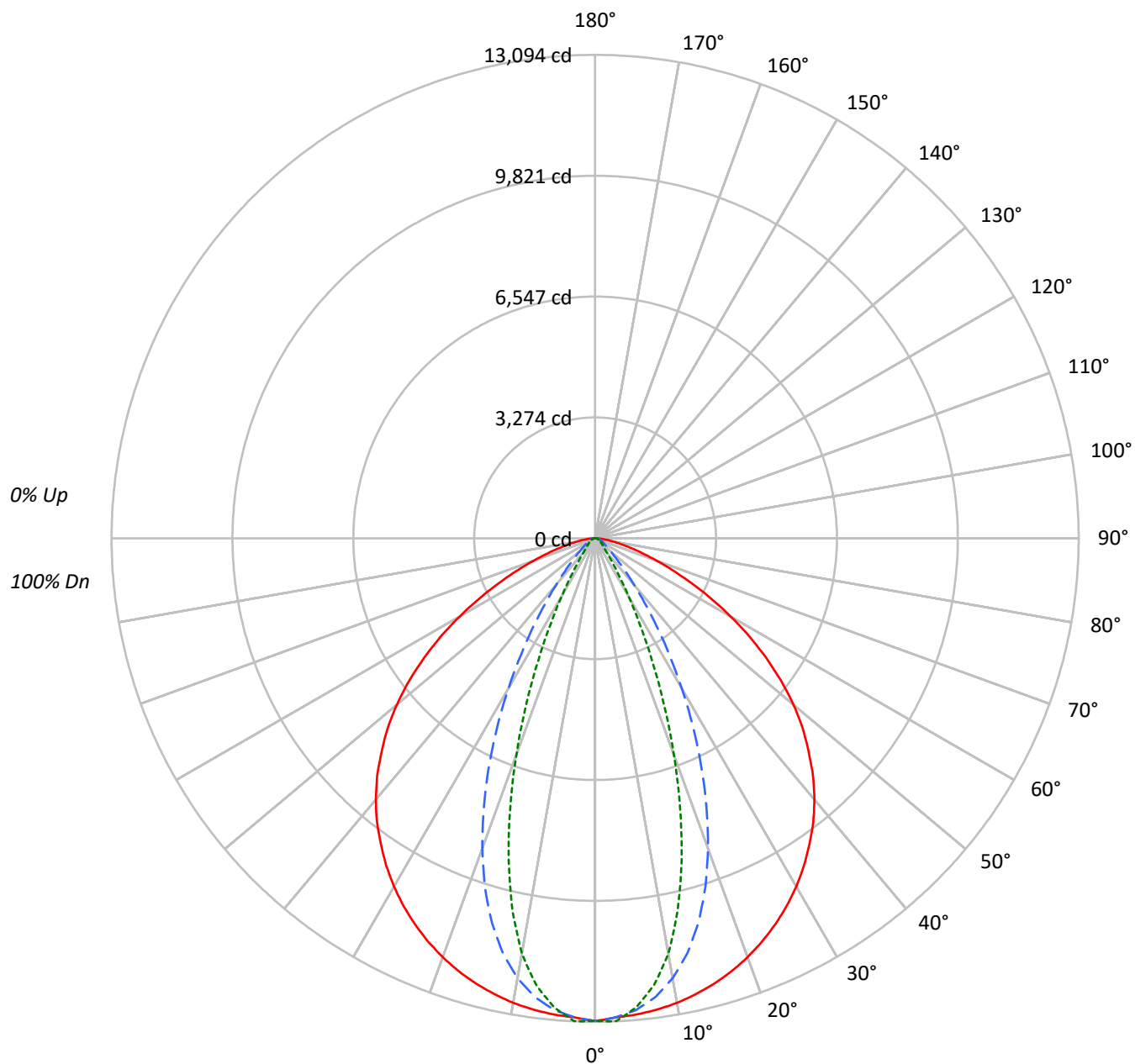
Input Watts (W): 94
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	75	81	77	74	72		
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65		
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60		
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55		
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50		
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46		
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43		
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21113	21113	21113
5°	20986	20778	20668
10°	20951	19837	18719
15°	20867	18031	15117
20°	20742	15343	10715
25°	20556	12098	6474
30°	20306	8732	3327
35°	19940	5709	1662
40°	19467	3429	970
45°	18658	2048	725
50°	17598	1339	609
55°	15927	1016	531
60°	13687	865	485
65°	11009	789	458
70°	8294	845	455
75°	6101	803	468
80°	4463	801	512
85°	3344	971	663



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1204.3	8.4
10°-20°	2996.0	20.9
20°-30°	3318.5	23.2
30°-40°	2658.7	18.6
40°-50°	1898.0	13.3
50°-60°	1219.1	8.5
60°-70°	660.7	4.6
70°-80°	282.4	2.0
80°-90°	78.3	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°	7518.8	52.5
0°-40°	10177.5	71.1
0°-60°	13294.6	92.9
0°-90°	14316.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14316.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13077	13077	13077	13077	13077	
5°	12948	12997	12820	12779	12752	###
15°	12484	12093	10787	9533	9044	3522
25°	11539	10174	6791	4425	3634	5316
35°	10116	7317	2896	1168	843	6325
45°	8171	4224	897	382	318	6298
55°	5658	1888	361	222	189	5042
65°	2882	776	207	143	120	2886
75°	978	284	129	90	75	1087
85°	180	75	52	43	36	220
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13076.6	13076.6	13076.6	13076.6	13076.6
2.5°	12990.5	13071.8	12984.3	13038.7	13094.5
5°	12948.5	12996.8	12819.7	12779.1	12752.2
7.5°	12875.5	12861.7	12529.1	12313.5	12209.5
10°	12779.1	12667.5	12099.3	11625.4	11417.4
12.5°	12641.3	12411.3	11517.3	10685.3	10332.7
15°	12483.6	12093.1	10787.2	9533.0	9044.0
17.5°	12294.9	11721.1	9914.6	8297.4	7652.0
20°	12071.7	11272.1	8929.7	6984.6	6235.9
22.5°	11822.4	10754.2	7875.2	5676.0	4872.9
25°	11538.6	10174.2	6791.1	4424.6	3633.8
27.5°	11232.2	9530.3	5713.2	3306.0	2584.8
30°	10891.9	8833.2	4683.5	2383.8	1784.6
32.5°	10520.7	8092.2	3726.9	1676.4	1220.5
35°	10116.4	7317.3	2896.2	1168.1	843.0
37.5°	9702.4	6526.6	2187.5	825.8	604.7
40°	9236.1	5738.6	1626.9	604.7	460.1
42.5°	8735.4	4965.9	1204.0	465.6	372.6
45°	8171.3	4224.1	896.8	381.6	317.5
47.5°	7624.5	3532.6	681.2	325.1	276.2
50°	7006.0	2908.6	533.1	283.8	242.4
52.5°	6349.6	2359.7	432.5	250.0	213.5
55°	5658.1	1888.5	360.9	221.8	188.7
57.5°	4957.6	1495.9	308.6	197.6	168.1
60°	4238.6	1196.4	267.9	177.0	150.1
62.5°	3536.8	956.7	234.2	159.1	134.3
65°	2881.7	775.5	206.6	142.6	119.8
67.5°	2276.3	613.0	192.9	128.1	108.2
70°	1757.0	477.3	179.1	114.3	96.4
72.5°	1331.3	366.4	158.4	101.9	85.4
75°	978.0	283.8	128.8	89.5	75.1
77.5°	699.8	218.4	104.7	77.8	64.8
80°	480.0	162.6	86.1	66.8	55.1
82.5°	312.0	115.0	69.6	55.1	45.4
85°	180.5	75.1	52.4	43.4	35.8
87.5°	77.8	41.3	35.8	32.4	27.5
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)