

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: P730477

Luminaire Tested: **HBLED-LD5-15SE-W-AI-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730477
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23765)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-15SE-W-AI-UNV-L850
Description: 15000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND PRISMATIC ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14171.0 lumens
Efficiency: N/A
Efficacy: 150.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

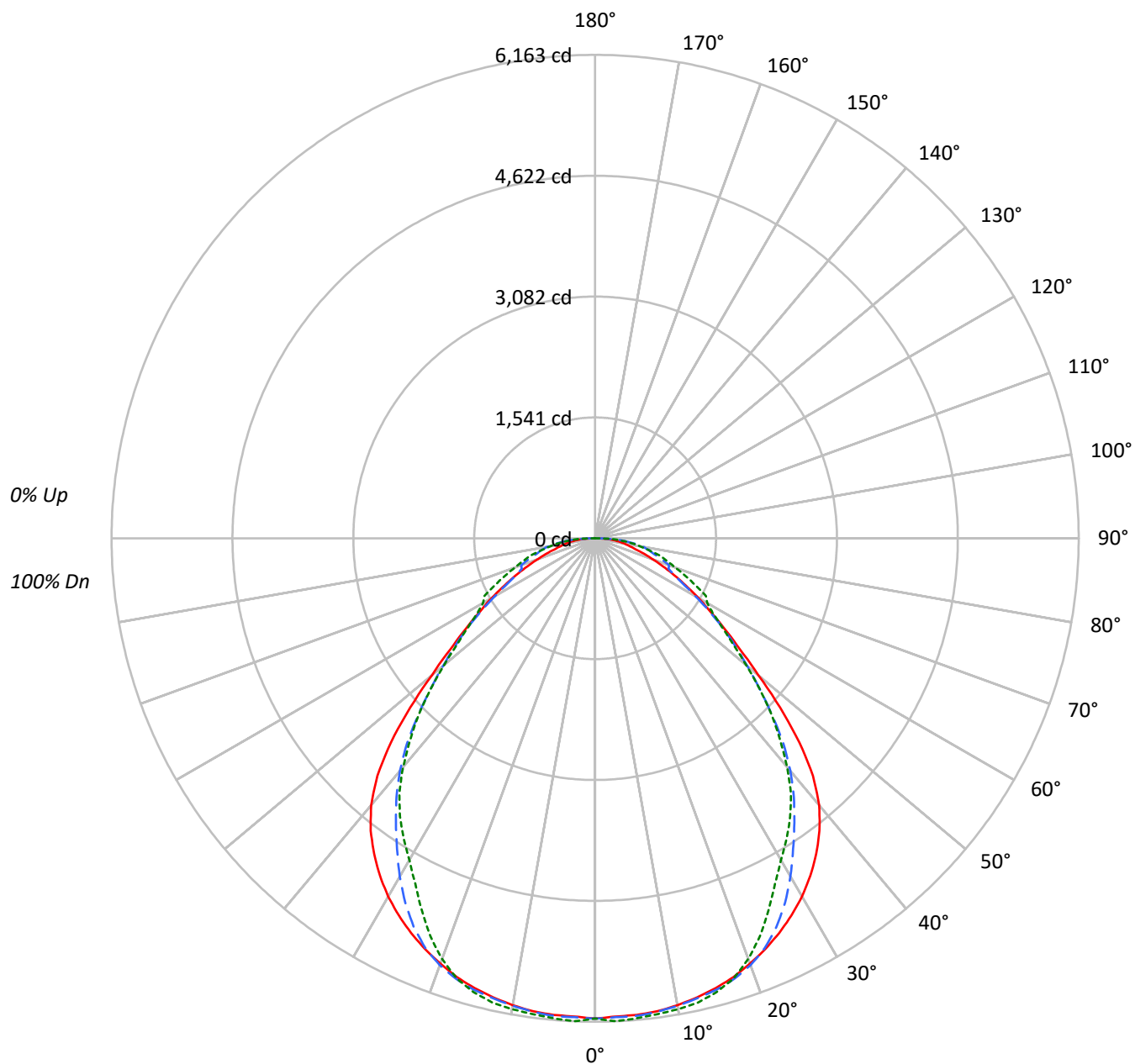
Input Watts (W): 94
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63		
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55		
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48		
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43		
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38		
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34		
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31		
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9885	9885	9885
5°	9884	9906	9954
10°	9909	9922	9994
15°	9924	9961	10010
20°	9914	9951	9804
25°	9889	9741	9317
30°	9831	9282	8829
35°	9683	8724	8542
40°	9359	8157	8022
45°	8412	7283	7257
50°	6823	6344	6300
55°	5665	5560	5558
60°	4905	4762	5324
65°	4251	4225	5366
70°	3665	4739	5115
75°	3287	4857	5332
80°	3417	5717	5350
85°	3877	6589	6113



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	582.9	4.1
10°-20°	1683.5	11.9
20°-30°	2500.4	17.6
30°-40°	2838.7	20.0
40°-50°	2537.6	17.9
50°-60°	1754.5	12.4
60°-70°	1157.7	8.2
70°-80°	781.1	5.5
80°-90°	334.5	2.4
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°	4766.8	33.6
0°-40°	7605.5	53.7
0°-60°	11897.7	84.0
0°-90°	14171.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14171.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6122	6122	6122	6122	6122	
5°	6099	6136	6112	6137	6142	580
15°	5937	5966	5959	5993	5988	1676
25°	5551	5604	5468	5305	5230	2558
35°	4913	4809	4426	4361	4334	3063
45°	3684	3372	3190	3214	3178	2802
55°	2013	1837	1975	1947	1974	1828
65°	1113	988	1106	1293	1405	1110
75°	527	663	779	832	855	575
85°	209	291	356	358	330	218
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6122.3	6122.3	6122.3	6122.3	6122.3
2.5°	6101.5	6139.6	6111.2	6137.6	6163.2
5°	6098.7	6136.2	6111.9	6136.8	6141.7
7.5°	6081.4	6116.0	6087.6	6111.9	6117.4
10°	6043.9	6084.9	6051.6	6089.0	6096.0
12.5°	5995.5	6037.1	6007.9	6059.2	6062.0
15°	5937.2	5965.6	5959.4	5992.6	5988.5
17.5°	5863.7	5896.3	5891.4	5899.7	5880.3
20°	5770.1	5806.8	5791.6	5753.5	5705.7
22.5°	5669.6	5713.9	5653.7	5557.3	5490.0
25°	5551.0	5603.7	5467.9	5305.0	5230.1
27.5°	5420.0	5467.1	5241.2	5041.5	4963.9
30°	5273.1	5293.1	4978.4	4788.4	4735.7
32.5°	5103.2	5074.1	4697.6	4572.1	4541.6
35°	4912.6	4809.2	4425.9	4361.4	4333.6
37.5°	4697.6	4508.4	4157.6	4127.8	4098.6
40°	4440.4	4161.0	3869.9	3850.5	3806.1
42.5°	4108.4	3783.2	3550.2	3527.4	3487.8
45°	3684.1	3372.1	3189.7	3214.0	3178.0
47.5°	3196.0	2959.6	2843.8	2910.4	2843.8
50°	2716.2	2557.5	2525.6	2585.9	2508.3
52.5°	2323.2	2180.4	2246.2	2256.6	2210.2
55°	2012.6	1837.2	1975.2	1947.4	1974.4
57.5°	1742.2	1546.0	1715.9	1684.0	1776.9
60°	1519.0	1298.5	1474.6	1467.7	1648.6
62.5°	1299.9	1123.8	1265.2	1367.1	1589.7
65°	1112.7	987.9	1105.8	1293.0	1404.6
67.5°	933.1	886.0	1011.5	1115.5	1237.5
70°	776.4	800.7	1003.8	984.4	1083.6
72.5°	644.7	727.3	886.0	889.5	959.5
75°	526.9	662.8	778.6	831.9	854.8
77.5°	438.1	601.1	703.0	721.7	699.5
80°	367.5	529.6	614.9	606.6	575.4
82.5°	296.7	401.4	484.6	492.3	455.5
85°	209.3	291.2	355.7	357.8	330.0
87.5°	112.3	179.6	215.6	221.8	205.2
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)