

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: P730507

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730507
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-003-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-15SE-W-UNV-L850
Description: 15000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16067.0 lumens
Efficiency: N/A
Efficacy: 170.9 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.31 / 1.43
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

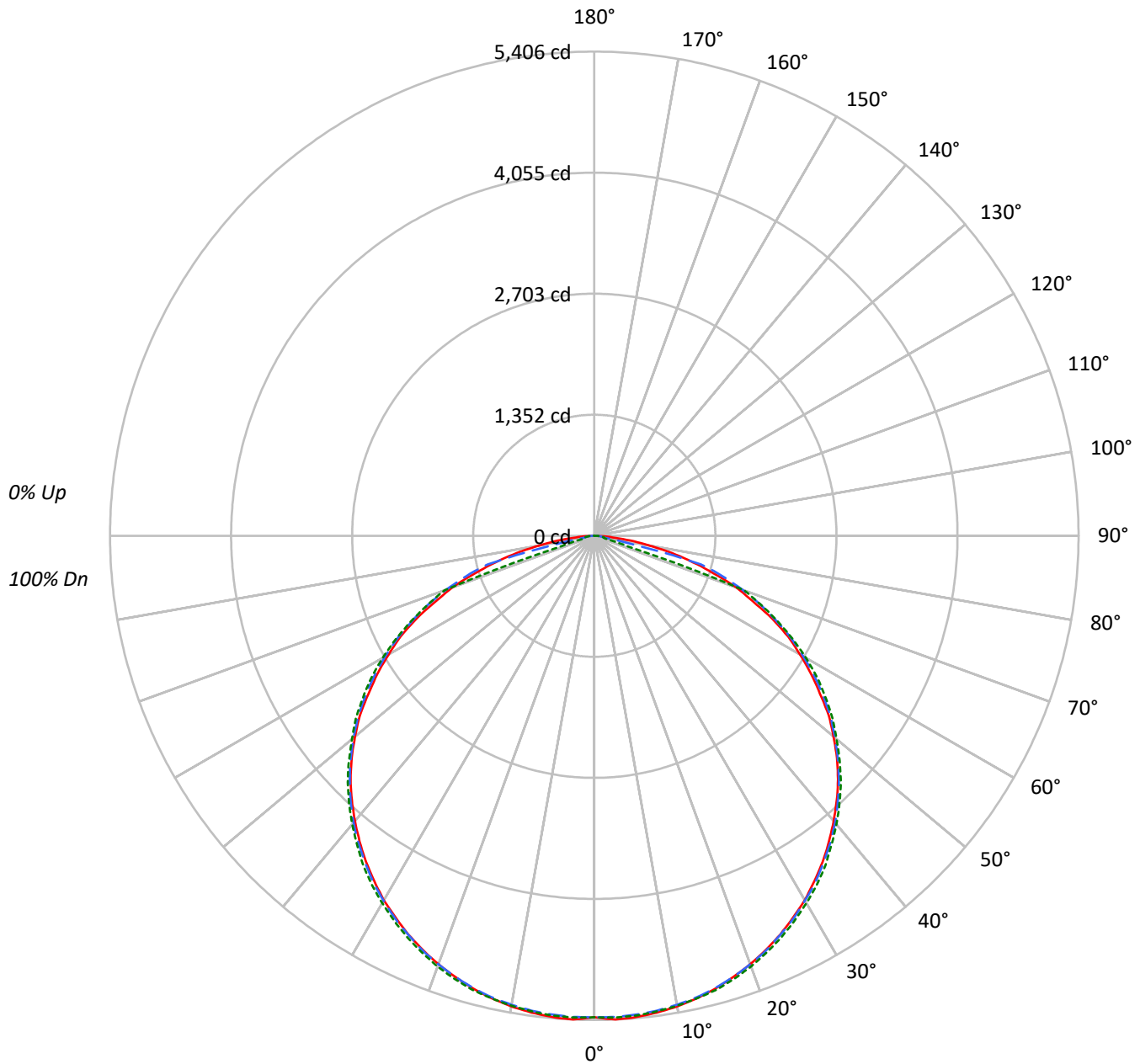
Input Watts (W): 94
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85		
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70		
3	90	80	72	65	88	78	71	64	75	69	63	72	67	62	70	65	61	59		
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50		
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43		
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37		
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33		
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29		
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26		
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8681	8681	8681
5°	8743	8698	8714
10°	8748	8717	8734
15°	8747	8735	8775
20°	8746	8748	8793
25°	8750	8755	8808
30°	8760	8771	8829
35°	8758	8787	8860
40°	8760	8815	8863
45°	8784	8817	8888
50°	8758	8809	8866
55°	8661	8783	8877
60°	8563	8702	8810
65°	8374	8547	8612
70°	7950	8289	8391
75°	7090	7688	926
80°	5702	958	1013
85°	3794	1243	1265



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	510.6	3.2
10°-20°	1475.5	9.2
20°-30°	2267.0	14.1
30°-40°	2790.8	17.4
40°-50°	2975.3	18.5
50°-60°	2781.3	17.3
60°-70°	2201.7	13.7
70°-80°	936.7	5.8
80°-90°	127.9	0.8
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°	4253.2	26.5
0°-40°	7044.0	43.8
0°-60°	12800.6	79.7
0°-90°	16067.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16067.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5376	5376	5376	5376	5376	
5°	5394	5370	5367	5345	5376	513
15°	5233	5223	5226	5211	5250	1477
25°	4912	4906	4914	4912	4944	2265
35°	4444	4436	4458	4473	4495	2780
45°	3847	3826	3861	3877	3892	2964
55°	3077	3086	3120	3131	3154	2755
65°	2192	2211	2237	2254	2254	2156
75°	1137	1186	1232	201	148	1202
85°	205	61	67	70	68	267
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5376.5	5376.5	5376.5	5376.5	5376.5
2.5°	5406.4	5381.3	5376.5	5354.9	5383.7
5°	5394.4	5370.5	5366.9	5345.3	5376.5
7.5°	5369.3	5350.1	5347.7	5325.0	5356.1
10°	5335.8	5317.8	5316.6	5296.2	5327.4
12.5°	5290.2	5274.7	5279.5	5259.1	5290.2
15°	5232.8	5223.2	5225.6	5211.2	5249.5
17.5°	5163.3	5158.5	5163.3	5152.5	5187.2
20°	5090.2	5084.2	5091.4	5085.4	5117.8
22.5°	5005.2	4998.0	5012.4	5004.0	5033.9
25°	4911.8	4905.8	4914.2	4911.8	4944.1
27.5°	4805.2	4799.2	4817.2	4818.3	4843.5
30°	4698.6	4690.2	4704.6	4710.6	4735.7
32.5°	4571.6	4569.2	4590.8	4595.6	4621.9
35°	4443.5	4436.3	4457.8	4473.4	4495.0
37.5°	4303.3	4302.1	4324.9	4338.1	4348.9
40°	4156.0	4150.0	4182.4	4195.5	4205.1
42.5°	4006.3	3993.1	4024.3	4041.0	4051.8
45°	3847.0	3825.5	3861.4	3877.0	3892.5
47.5°	3672.1	3653.0	3687.7	3704.5	3715.3
50°	3486.5	3468.5	3506.9	3521.2	3529.6
52.5°	3299.7	3281.7	3322.4	3334.4	3354.8
55°	3076.9	3086.5	3120.0	3130.8	3153.5
57.5°	2870.9	2879.3	2911.6	2924.8	2951.1
60°	2651.7	2664.9	2694.8	2708.0	2728.4
62.5°	2439.7	2440.9	2476.8	2482.8	2498.4
65°	2191.8	2211.0	2237.3	2254.1	2254.1
67.5°	1915.1	1961.8	2007.3	2003.8	2013.3
70°	1684.0	1701.9	1755.8	1764.2	1777.4
72.5°	1394.1	1440.8	1500.7	1121.0	380.9
75°	1136.6	1185.7	1232.4	201.2	148.5
77.5°	882.7	921.0	409.6	115.0	112.6
80°	613.2	674.3	103.0	105.4	109.0
82.5°	403.6	329.4	85.0	93.4	94.6
85°	204.8	61.1	67.1	69.5	68.3
87.5°	67.1	37.1	38.3	39.5	40.7
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)