

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: P#

Luminaire Tested: **HBLED-LD5-15SE-W-CL-UNV-L850-ED1-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23762)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-15SE-W-CL-UNV-L850-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

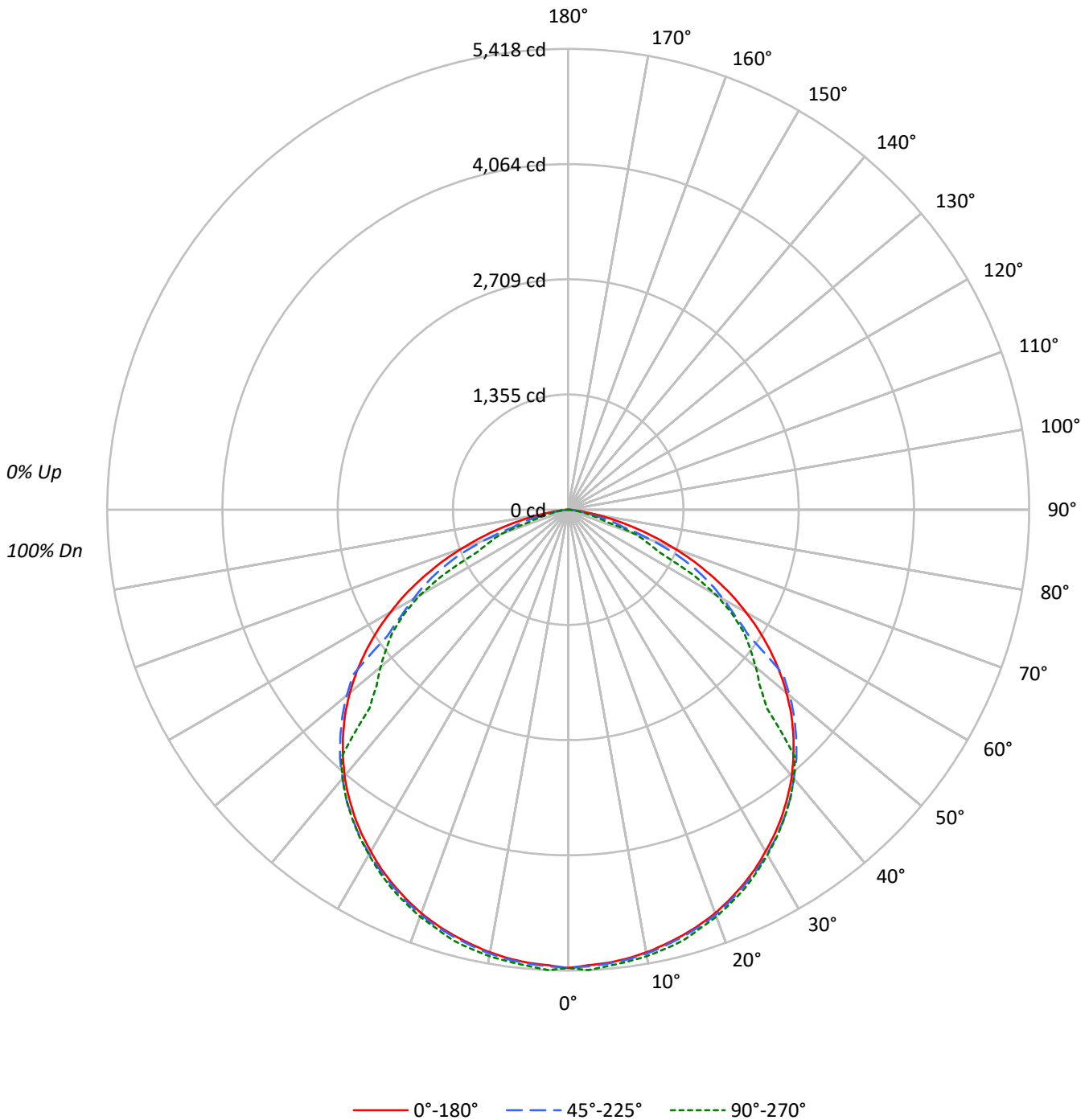
Lumens per Lamp: N/A
Luminaire Lumens: 14562.0 lumens
Efficiency: N/A
Efficacy: 153.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 95.2
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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7247	7247	7247
5°	7221	7237	7272
10°	7220	7241	7283
15°	7220	7242	7300
20°	7229	7256	7290
25°	7221	7248	7292
30°	7207	7260	7276
35°	7204	7269	7275
40°	7181	7244	7244
45°	7120	7206	6278
50°	7010	7115	6024
55°	6811	6091	5917
60°	6491	5662	5406
65°	6003	5256	3744
70°	5227	4089	3336
75°	4129	2745	1794
80°	2658	1311	1118
85°	1093	800	881



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	511.0	3.5
10°-20°	1472.7	10.1
20°-30°	2257.9	15.5
30°-40°	2767.4	19.0
40°-50°	2845.1	19.5
50°-60°	2428.2	16.7
60°-70°	1605.3	11.0
70°-80°	594.8	4.1
80°-90°	79.5	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°	4241.6	29.1
0°-40°	7009.1	48.1
0°-60°	12282.4	84.3
0°-90°	14562.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14562.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5386	5386	5386	5386	5386	
5°	5346	5384	5358	5379	5384	509
15°	5183	5215	5199	5238	5241	1464
25°	4864	4889	4882	4926	4912	2243
35°	4386	4416	4426	4453	4429	2743
45°	3742	3779	3787	3781	3300	2883
55°	2903	2956	2596	2521	2522	2591
65°	1886	1901	1651	1358	1176	1859
75°	794	696	528	355	345	852
85°	71	50	52	56	57	117
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5386.4	5386.4	5386.4	5386.4	5386.4
2.5°	5360.2	5393.6	5374.0	5398.9	5417.9
5°	5346.4	5383.8	5358.2	5379.2	5384.5
7.5°	5322.8	5357.6	5334.0	5361.5	5357.6
10°	5284.8	5316.3	5299.9	5328.7	5330.7
12.5°	5236.2	5267.7	5252.6	5288.1	5287.4
15°	5183.1	5214.6	5198.9	5238.2	5240.8
17.5°	5120.8	5149.7	5137.9	5173.9	5159.5
20°	5048.7	5073.6	5067.7	5101.8	5091.3
22.5°	4960.1	4985.7	4979.8	5019.2	5003.4
25°	4863.7	4889.3	4882.1	4926.0	4911.6
27.5°	4759.4	4783.7	4783.1	4824.4	4802.1
30°	4638.8	4670.9	4672.9	4709.6	4683.4
32.5°	4519.4	4549.6	4558.1	4585.0	4562.7
35°	4385.6	4415.8	4425.6	4453.2	4428.9
37.5°	4241.3	4266.9	4284.6	4304.9	4285.9
40°	4088.5	4111.5	4124.6	4149.5	4124.6
42.5°	3918.0	3950.8	3969.2	3986.9	3946.2
45°	3741.6	3779.0	3786.8	3780.9	3299.5
47.5°	3554.7	3595.3	3599.9	3139.5	3051.0
50°	3348.7	3399.9	3399.2	2901.4	2877.8
52.5°	3134.3	3183.5	3181.5	2715.2	2699.4
55°	2903.4	2956.5	2596.5	2521.1	2522.4
57.5°	2668.0	2706.0	2329.6	2332.8	2289.5
60°	2412.2	2448.3	2103.9	2083.6	2008.8
62.5°	2155.8	2170.8	1885.5	1786.5	1644.2
65°	1885.5	1901.3	1650.8	1357.6	1175.9
67.5°	1608.1	1623.9	1370.1	1010.0	996.2
70°	1328.7	1200.2	1039.5	841.4	848.0
72.5°	1053.3	922.1	679.5	651.9	470.9
75°	794.2	695.8	528.0	354.8	345.0
77.5°	552.9	479.4	282.7	242.0	226.3
80°	343.0	240.7	169.2	150.2	144.3
82.5°	173.8	138.4	91.8	91.8	91.8
85°	70.8	50.5	51.8	56.4	57.1
87.5°	15.1	20.3	24.9	25.6	24.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)