

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-A-UNV-L740-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 (P23761)
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-A-UNV-L740-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

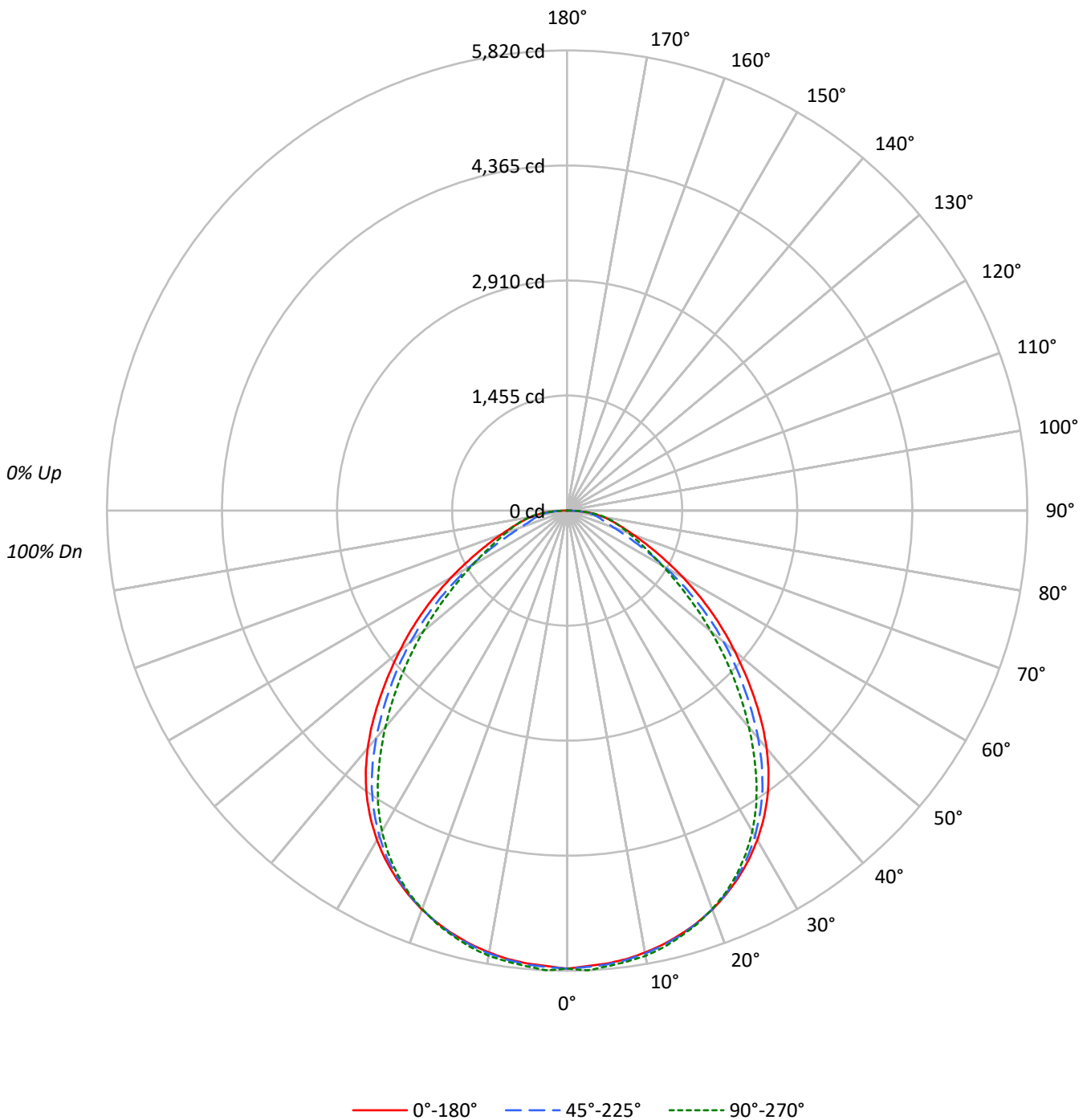
Lumens per Lamp: N/A
Luminaire Lumens: 13306.0 lumens
Efficiency: N/A
Efficacy: 139.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P#
CATALOG NUMBER: HBLED-LD5-15SE-W-A-UNV-L740-ED1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-15SE-W-A-UNV-L740-ED1-U

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	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	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86																												
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73																												
3	93	83	75	70	90	81	75	69	79	73	68	76	71	67	73	69	65	63																												
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55																												
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49																												
6	73	61	52	46	72	60	52	46	58	51	46	56	50	45	55	49	45	43																												
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38																												
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35																												
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31																												
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7793	7793	7793
5°	7766	7784	7815
10°	7755	7773	7812
15°	7729	7745	7763
20°	7689	7683	7677
25°	7605	7579	7536
30°	7474	7384	7276
35°	7257	7074	6856
40°	6896	6600	6283
45°	6370	6015	5651
50°	5791	5416	4970
55°	5207	4689	4297
60°	4556	3832	3728
65°	3929	3014	3365
70°	3503	2460	3243
75°	3355	2401	3389
80°	3629	2840	3776
85°	4074	3419	4114



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-15SE-W-A-UNV-L740-ED1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	549.0	4.1
10°-20°	1571.1	11.8
20°-30°	2350.2	17.7
30°-40°	2681.4	20.2
40°-50°	2440.8	18.3
50°-60°	1792.3	13.5
60°-70°	1058.3	8.0
70°-80°	606.5	4.6
80°-90°	256.4	1.9
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°	4470.3	33.6
0°-40°	7151.7	53.7
0°-60°	11384.8	85.6
0°-90°	13306.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13306.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5792	5792	5792	5792	5792	
5°	5750	5786	5763	5786	5786	547
15°	5549	5579	5560	5579	5573	1566
25°	5123	5141	5105	5103	5076	2358
35°	4418	4396	4307	4233	4174	2753
45°	3348	3328	3161	3019	2970	2580
55°	2220	2117	1999	1854	1832	1985
65°	1234	1077	947	1012	1057	1242
75°	645	553	462	602	652	696
85°	264	244	222	261	266	276
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-15SE-W-A-UNV-L740-ED1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5792.3	5792.3	5792.3	5792.3	5792.3
2.5°	5765.5	5798.9	5778.0	5800.8	5820.4
5°	5749.9	5785.8	5762.9	5785.8	5786.4
7.5°	5721.1	5754.4	5732.2	5757.1	5754.4
10°	5676.0	5709.4	5689.1	5715.9	5717.9
12.5°	5618.6	5650.6	5629.7	5660.4	5655.1
15°	5548.7	5579.4	5559.8	5579.4	5572.8
17.5°	5466.4	5494.4	5469.0	5490.5	5479.4
20°	5369.7	5393.2	5365.8	5386.0	5361.8
22.5°	5254.1	5275.0	5246.2	5257.3	5232.5
25°	5122.7	5141.0	5105.1	5103.2	5076.4
27.5°	4976.4	4986.2	4940.5	4924.8	4894.1
30°	4810.5	4813.1	4752.4	4723.0	4683.1
32.5°	4624.3	4617.8	4540.1	4496.3	4447.3
35°	4417.9	4396.3	4306.8	4233.0	4174.2
37.5°	4184.7	4150.7	4043.6	3934.5	3878.3
40°	3926.0	3886.2	3757.5	3622.2	3577.2
42.5°	3644.5	3610.5	3458.9	3317.8	3273.4
45°	3347.9	3328.3	3161.1	3019.3	2969.7
47.5°	3051.3	3036.9	2873.6	2729.3	2669.2
50°	2766.5	2735.1	2587.5	2429.4	2374.5
52.5°	2490.2	2426.2	2296.2	2134.2	2093.7
55°	2219.7	2117.2	1998.9	1853.9	1831.7
57.5°	1951.9	1819.3	1704.3	1595.9	1595.2
60°	1693.2	1541.7	1424.1	1367.2	1385.5
62.5°	1450.9	1295.4	1168.0	1171.9	1205.2
65°	1234.0	1077.2	946.6	1012.5	1057.0
67.5°	1047.8	898.2	765.6	888.4	930.9
70°	890.4	755.2	625.2	778.7	824.4
72.5°	757.8	644.1	527.2	687.2	733.6
75°	645.4	553.3	461.8	602.3	651.9
77.5°	554.0	472.3	414.2	521.3	572.9
80°	468.4	396.5	366.5	442.9	487.3
82.5°	371.0	321.4	303.8	359.9	382.8
85°	263.9	243.7	221.5	261.3	266.5
87.5°	145.0	150.2	124.1	150.2	150.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)