

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-CLI-UNV-L750-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 (P23766)
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-CLI-UNV-L750-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

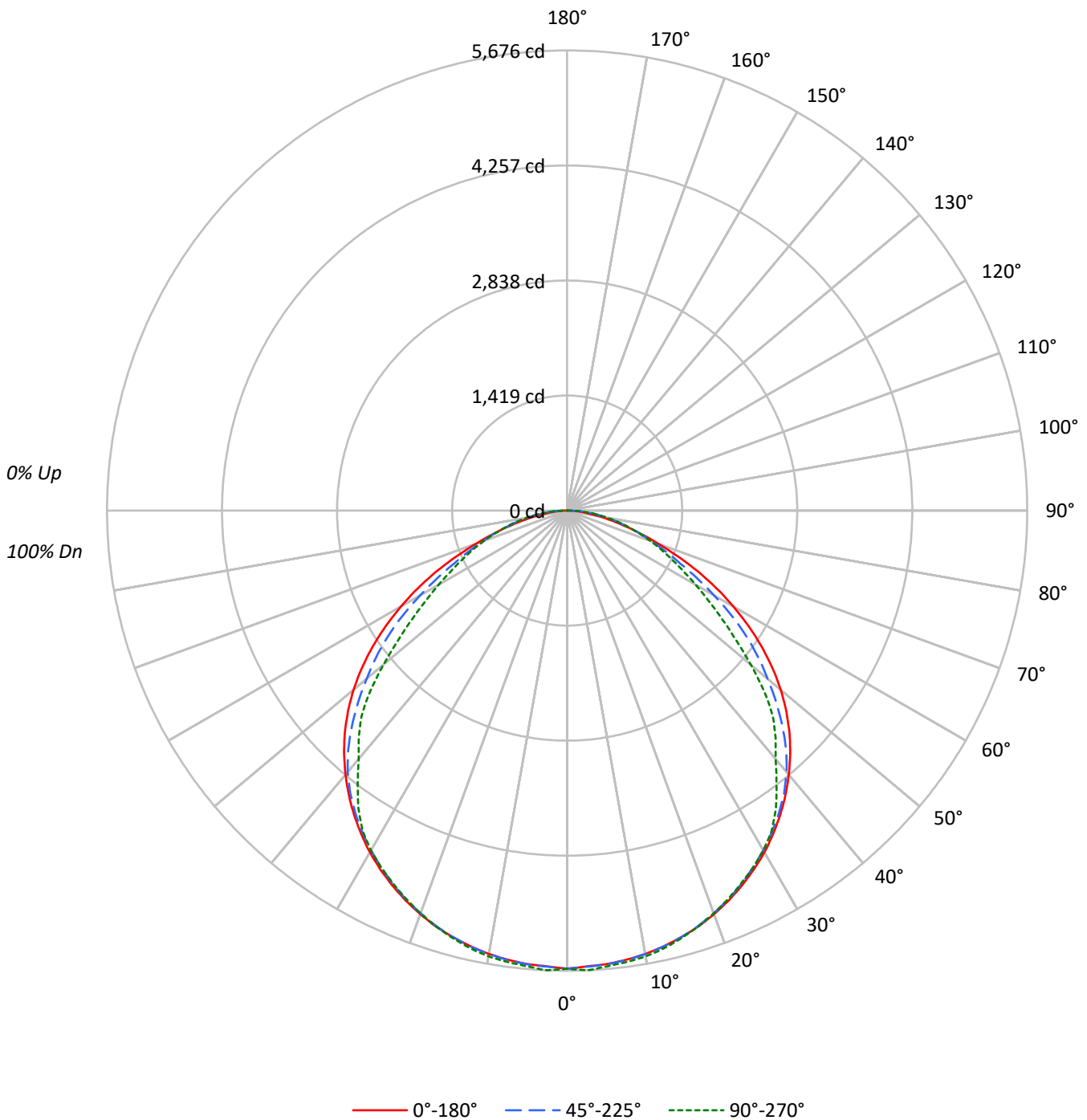
Lumens per Lamp: N/A
Luminaire Lumens: 15181.0 lumens
Efficiency: N/A
Efficacy: 159.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7603	7603	7603
5°	7582	7588	7622
10°	7586	7590	7630
15°	7587	7586	7604
20°	7585	7568	7570
25°	7574	7546	7537
30°	7562	7516	7520
35°	7526	7479	7374
40°	7473	7396	7023
45°	7378	7142	6829
50°	7200	6761	6185
55°	6872	6324	5469
60°	6378	5642	4932
65°	5669	4885	4535
70°	4705	4366	4275
75°	3805	3995	4044
80°	3022	3821	3805
85°	2367	4105	3917



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	535.9	3.5
10°-20°	1541.3	10.2
20°-30°	2350.3	15.5
30°-40°	2843.5	18.7
40°-50°	2880.2	19.0
50°-60°	2380.6	15.7
60°-70°	1572.3	10.4
70°-80°	819.9	5.4
80°-90°	257.0	1.7
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°	4427.5	29.2
0°-40°	7271.0	47.9
0°-60°	12531.8	82.5
0°-90°	15181.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15181.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5650	5650	5650	5650	5650	
5°	5614	5648	5618	5642	5643	534
15°	5447	5475	5446	5463	5459	1538
25°	5102	5122	5083	5096	5077	2352
35°	4582	4588	4554	4548	4489	2866
45°	3877	3867	3753	3636	3589	2986
55°	2930	2886	2696	2434	2331	2611
65°	1781	1729	1534	1435	1424	1759
75°	732	745	768	779	778	797
85°	153	197	266	264	254	186
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5650.5	5650.5	5650.5	5650.5	5650.5
2.5°	5626.7	5660.0	5632.1	5656.6	5676.2
5°	5613.8	5647.7	5617.9	5642.3	5643.0
7.5°	5588.7	5622.6	5592.1	5616.5	5615.9
10°	5552.8	5584.7	5555.5	5584.7	5584.7
12.5°	5503.9	5535.1	5506.6	5533.8	5529.7
15°	5447.0	5474.8	5446.3	5463.2	5459.2
17.5°	5379.8	5404.9	5373.0	5387.3	5379.1
20°	5297.7	5320.8	5285.5	5303.8	5286.9
22.5°	5205.5	5227.2	5191.2	5204.8	5185.8
25°	5101.7	5122.0	5082.7	5095.6	5076.6
27.5°	4989.8	5008.1	4964.0	4979.6	4964.7
30°	4867.0	4875.8	4837.8	4858.2	4840.5
32.5°	4730.0	4735.4	4702.2	4720.5	4690.6
35°	4582.1	4588.2	4553.6	4547.5	4489.2
37.5°	4424.0	4426.8	4394.2	4339.3	4242.9
40°	4254.5	4253.1	4211.0	4084.2	3998.7
42.5°	4073.3	4072.7	3998.7	3854.2	3805.4
45°	3877.3	3867.1	3753.2	3636.5	3589.0
47.5°	3667.0	3656.2	3496.8	3403.8	3296.0
50°	3439.8	3420.8	3230.2	3103.3	2954.8
52.5°	3194.9	3165.7	2971.7	2766.9	2626.5
55°	2929.7	2886.3	2695.7	2433.8	2331.4
57.5°	2653.6	2589.2	2404.0	2148.9	2065.5
60°	2370.1	2298.2	2096.7	1887.1	1832.8
62.5°	2078.4	2007.2	1801.6	1643.6	1613.7
65°	1780.6	1729.1	1534.4	1434.7	1424.5
67.5°	1475.4	1457.0	1308.5	1257.6	1253.5
70°	1195.9	1192.5	1109.7	1084.0	1086.7
72.5°	955.8	951.7	939.5	926.6	927.3
75°	731.9	744.8	768.5	778.7	778.0
77.5°	546.1	572.5	622.7	643.1	639.7
80°	390.0	429.4	493.1	512.1	491.1
82.5°	259.8	301.2	376.5	379.2	362.2
85°	153.3	197.4	265.9	263.9	253.7
87.5°	76.0	118.7	159.4	152.6	145.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)