

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-WG-UNV-L735-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 (P33336)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-15SE-W-WG-UNV-L735-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

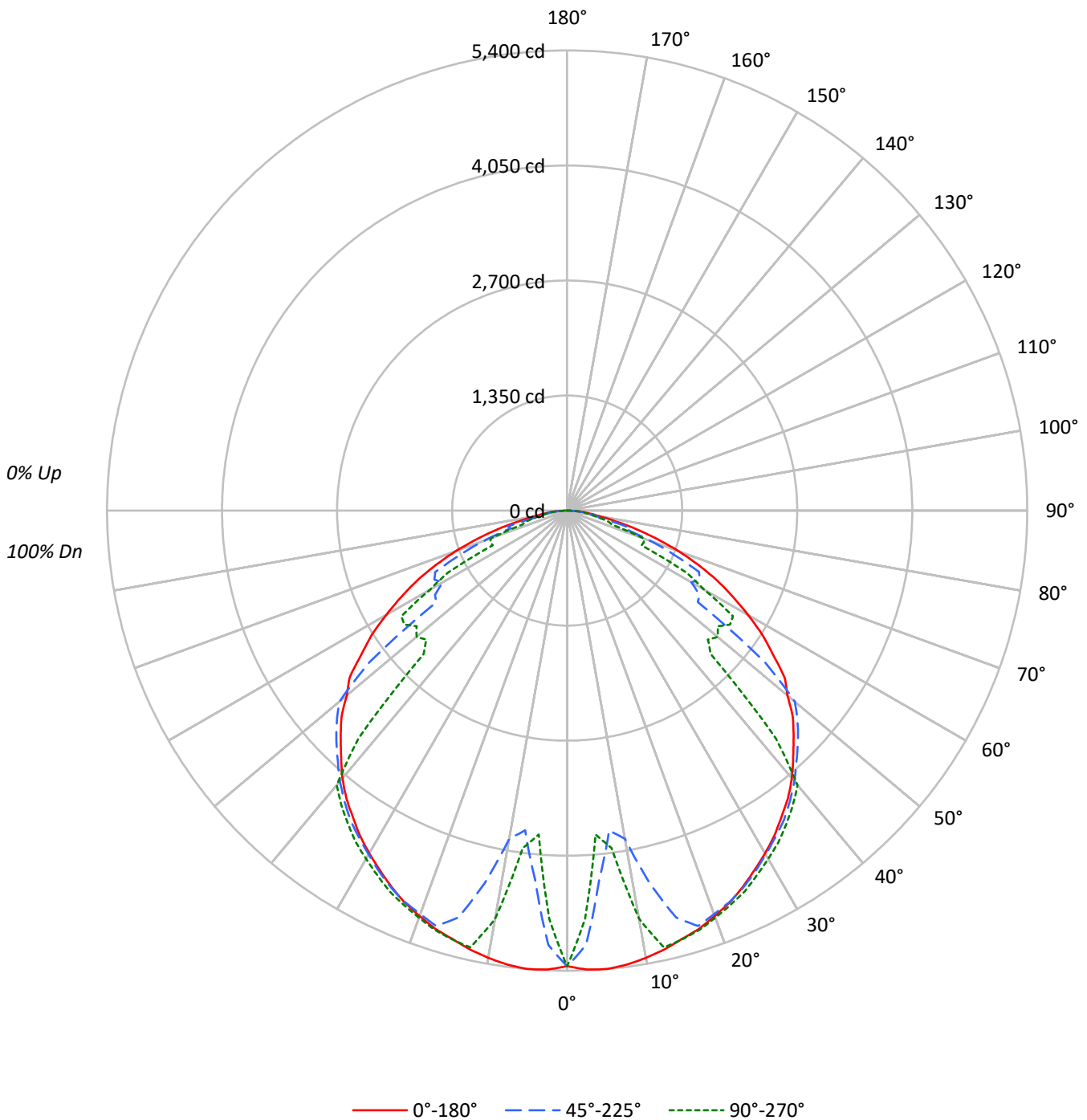
Lumens per Lamp: N/A
Luminaire Lumens: 14165.0 lumens
Efficiency: N/A
Efficacy: 148.8 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7194	7194	7194
5°	7294	5860	5153
10°	7282	5344	6647
15°	7249	6888	7255
20°	7249	7216	7280
25°	7236	7252	7319
30°	7215	7239	7333
35°	7204	7284	7369
40°	7205	7283	7388
45°	7148	7288	4529
50°	7068	7303	4827
55°	6918	4391	5471
60°	6600	4526	5010
65°	6184	5435	3066
70°	5460	4117	3758
75°	4351	3742	2606
80°	2997	2705	2239
85°	2871	2498	2368



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.6	3.0
10°-20°	1339.5	9.5
20°-30°	2203.7	15.6
30°-40°	2770.9	19.6
40°-50°	2717.6	19.2
50°-60°	2251.6	15.9
60°-70°	1588.1	11.2
70°-80°	692.9	4.9
80°-90°	173.1	1.2
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°	3970.8	28.0
0°-40°	6741.7	47.6
0°-60°	11710.9	82.7
0°-90°	14165.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14165.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5347	5347	5347	5347	5347	
5°	5400	5026	4339	3934	3816	513
15°	5204	3614	4945	5225	5209	1472
25°	4874	4460	4885	4918	4930	2247
35°	4386	4383	4434	4464	4486	2748
45°	3757	3768	3830	3392	2380	2900
55°	2949	3046	1872	2128	2332	2639
65°	1942	2057	1707	1313	963	1910
75°	837	820	720	471	501	897
85°	186	166	162	155	153	193
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5346.8	5346.8	5346.8	5346.8	5346.8
2.5°	5390.9	5279.1	5101.3	4877.5	4798.3
5°	5400.5	5026.5	4338.6	3933.9	3815.6
7.5°	5373.0	4568.1	3782.4	3867.4	3992.7
10°	5329.6	4165.3	3911.5	4602.0	4864.8
12.5°	5273.9	3807.3	4481.2	5198.5	5250.9
15°	5204.3	3614.2	4944.7	5224.7	5208.7
17.5°	5145.4	3727.4	5110.9	5172.3	5160.8
20°	5063.0	3953.1	5039.9	5089.2	5084.7
22.5°	4979.8	4220.3	4972.8	5008.0	5008.0
25°	4874.4	4460.1	4885.2	4917.8	4930.0
27.5°	4758.6	4598.2	4775.9	4802.7	4824.5
30°	4644.2	4618.0	4659.5	4694.1	4719.6
32.5°	4523.4	4513.1	4545.7	4582.2	4614.8
35°	4385.9	4383.3	4434.5	4463.9	4486.3
37.5°	4256.7	4247.8	4295.1	4336.0	4353.3
40°	4102.0	4102.0	4146.8	4188.3	4206.2
42.5°	3925.6	3950.5	3985.0	4027.9	3627.6
45°	3756.8	3768.3	3830.3	3392.4	2380.3
47.5°	3594.4	3609.1	3667.9	2180.8	2240.3
50°	3376.4	3442.9	3488.9	2174.4	2306.1
52.5°	3217.2	3245.9	2928.8	2152.7	2226.8
55°	2949.3	3045.8	1872.0	2128.4	2332.3
57.5°	2720.4	2790.7	1840.7	2180.8	2307.4
60°	2452.5	2559.9	1682.1	2104.1	1861.8
62.5°	2195.5	2297.8	1756.3	1655.9	1576.6
65°	1942.3	2056.8	1707.0	1313.2	962.9
67.5°	1664.8	1558.1	1361.8	925.1	973.7
70°	1388.0	1088.2	1046.6	1034.5	955.2
72.5°	1103.5	794.1	695.0	776.2	555.6
75°	836.9	820.3	719.9	470.6	501.2
77.5°	580.5	592.0	385.5	459.0	381.0
80°	386.8	335.0	349.1	292.8	289.0
82.5°	267.9	273.6	229.5	222.5	225.7
85°	186.0	165.6	161.8	154.7	153.4
87.5°	62.0	72.2	67.1	60.7	64.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)