

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-LD5-15HE-W-CLI-UNV-L840-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-LD5-15HE-W-CLI-UNV-L840-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

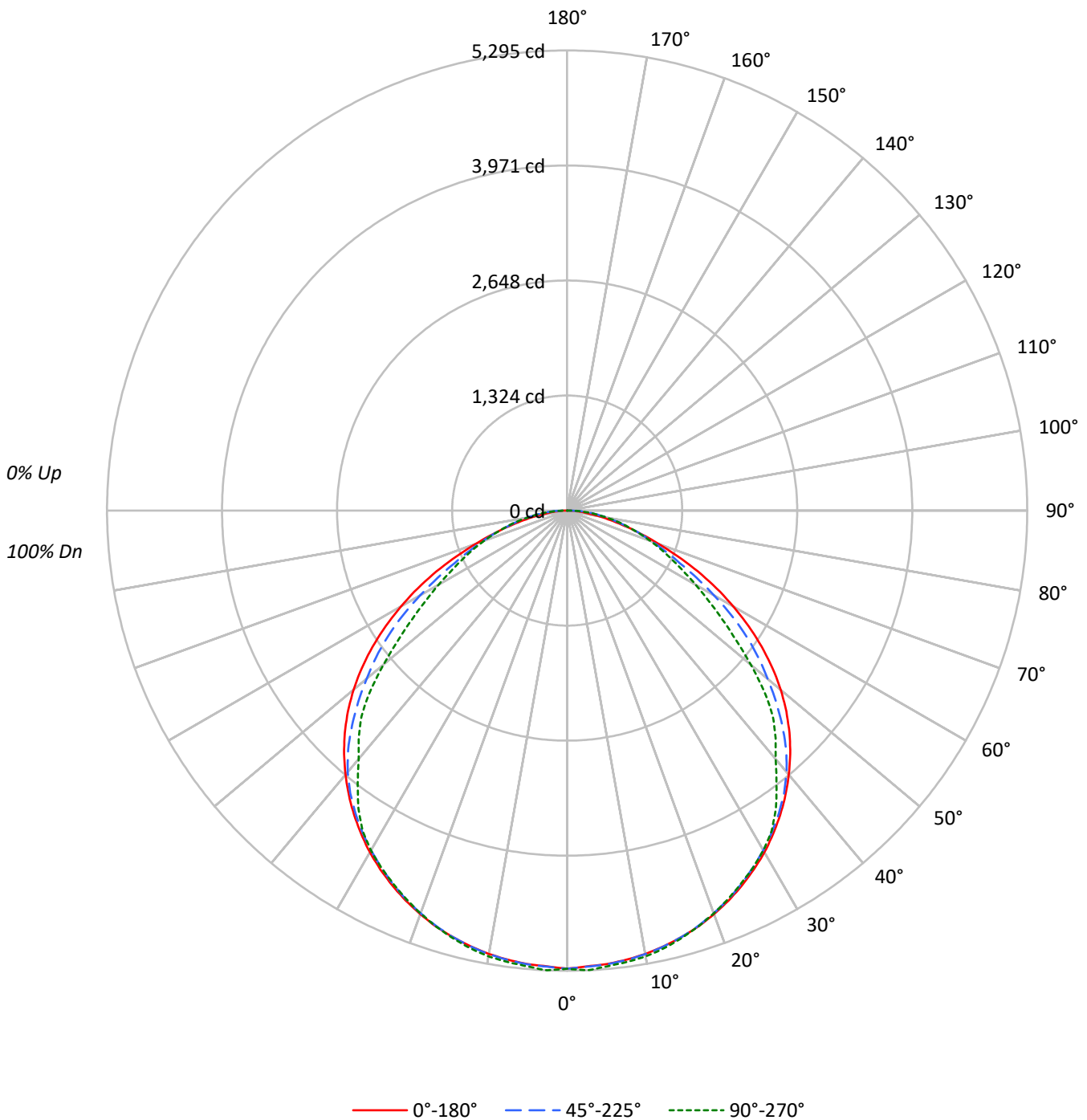
Lumens per Lamp: N/A
Luminaire Lumens: 14162.0 lumens
Efficiency: N/A
Efficacy: 154.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 91.8
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°	7092	7092	7092
5°	7073	7078	7110
10°	7077	7081	7118
15°	7078	7077	7094
20°	7076	7060	7062
25°	7065	7039	7031
30°	7054	7012	7016
35°	7021	6977	6879
40°	6971	6900	6552
45°	6883	6662	6371
50°	6717	6308	5770
55°	6411	5899	5102
60°	5950	5264	4601
65°	5288	4557	4231
70°	4389	4073	3988
75°	3550	3727	3773
80°	2820	3564	3550
85°	2208	3830	3654



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	499.9	3.5
10°-20°	1437.9	10.2
20°-30°	2192.5	15.5
30°-40°	2652.6	18.7
40°-50°	2686.9	19.0
50°-60°	2220.8	15.7
60°-70°	1466.8	10.4
70°-80°	764.8	5.4
80°-90°	239.8	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
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0°-30°	4130.3	29.2
0°-40°	6782.9	47.9
0°-60°	11690.6	82.5
0°-90°	14162.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14162.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5271	5271	5271	5271	5271	
5°	5237	5269	5241	5264	5264	498
15°	5081	5107	5081	5096	5093	1435
25°	4759	4778	4742	4754	4736	2194
35°	4274	4280	4248	4242	4188	2674
45°	3617	3608	3501	3392	3348	2785
55°	2733	2692	2515	2270	2175	2436
65°	1661	1613	1431	1338	1329	1641
75°	683	695	717	726	726	744
85°	143	184	248	246	237	174
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5271.2	5271.2	5271.2	5271.2	5271.2
2.5°	5249.0	5280.0	5254.1	5276.9	5295.2
5°	5237.0	5268.6	5240.8	5263.6	5264.2
7.5°	5213.6	5245.2	5216.8	5239.5	5238.9
10°	5180.1	5209.8	5182.6	5209.8	5209.8
12.5°	5134.5	5163.6	5137.0	5162.3	5158.5
15°	5081.3	5107.3	5080.7	5096.5	5092.7
17.5°	5018.7	5042.1	5012.4	5025.7	5018.1
20°	4942.1	4963.6	4930.7	4947.8	4932.0
22.5°	4856.1	4876.3	4842.8	4855.4	4837.7
25°	4759.2	4778.2	4741.5	4753.6	4735.8
27.5°	4654.8	4671.9	4630.8	4645.3	4631.4
30°	4540.3	4548.5	4513.1	4532.1	4515.6
32.5°	4412.5	4417.5	4386.5	4403.6	4375.8
35°	4274.5	4280.2	4247.9	4242.3	4187.8
37.5°	4127.1	4129.6	4099.2	4048.0	3958.1
40°	3968.9	3967.6	3928.4	3810.1	3730.3
42.5°	3799.9	3799.3	3730.3	3595.5	3550.0
45°	3617.1	3607.6	3501.3	3392.4	3348.1
47.5°	3420.9	3410.8	3262.1	3175.4	3074.7
50°	3208.9	3191.2	3013.4	2895.0	2756.5
52.5°	2980.5	2953.3	2772.3	2581.2	2450.2
55°	2733.0	2692.5	2514.7	2270.5	2174.9
57.5°	2475.5	2415.4	2242.6	2004.7	1926.9
60°	2211.0	2143.9	1956.0	1760.4	1709.8
62.5°	1938.9	1872.4	1680.7	1533.3	1505.4
65°	1661.1	1613.0	1431.4	1338.4	1328.9
67.5°	1376.3	1359.2	1220.7	1173.2	1169.4
70°	1115.6	1112.5	1035.3	1011.2	1013.7
72.5°	891.6	887.8	876.4	864.4	865.0
75°	682.8	694.8	717.0	726.4	725.8
77.5°	509.4	534.1	580.9	599.9	596.7
80°	363.9	400.6	460.0	477.8	458.1
82.5°	242.4	281.0	351.2	353.7	337.9
85°	143.0	184.1	248.1	246.2	236.7
87.5°	70.9	110.7	148.7	142.4	136.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)