

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-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 (P23760)
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-UNV-L840-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

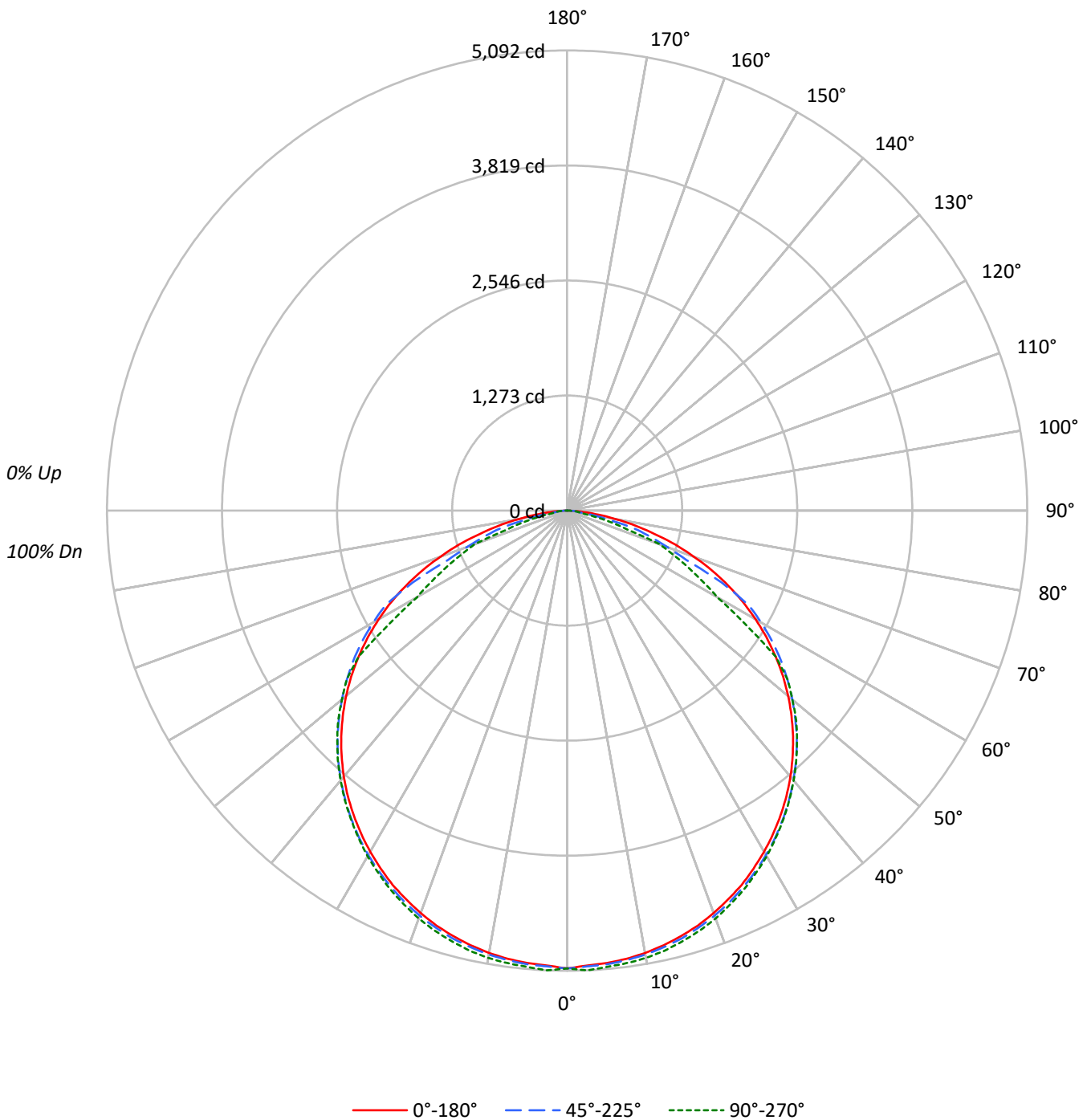
Lumens per Lamp: N/A
Luminaire Lumens: 14624.0 lumens
Efficiency: N/A
Efficacy: 153.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	89	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6816	6816	6816
5°	6788	6806	6845
10°	6791	6816	6867
15°	6790	6826	6873
20°	6786	6830	6878
25°	6784	6832	6870
30°	6772	6838	6863
35°	6763	6841	6850
40°	6751	6841	6851
45°	6726	6838	6846
50°	6686	6809	6808
55°	6607	6773	6605
60°	6485	6673	5167
65°	6268	6005	4656
70°	5873	4620	4291
75°	5200	4028	2674
80°	4283	2372	1196
85°	2822	1453	1565



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	480.7	3.3
10°-20°	1386.9	9.5
20°-30°	2126.2	14.5
30°-40°	2607.6	17.8
40°-50°	2768.9	18.9
50°-60°	2529.0	17.3
60°-70°	1761.2	12.0
70°-80°	821.4	5.6
80°-90°	142.1	1.0
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°	3993.8	27.3
0°-40°	6601.4	45.1
0°-60°	11899.3	81.4
0°-90°	14624.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14624.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5066	5066	5066	5066	5066	
5°	5026	5061	5040	5064	5068	478
15°	4874	4908	4900	4930	4934	1376
25°	4569	4610	4602	4636	4628	2106
35°	4118	4165	4165	4193	4170	2577
45°	3535	3588	3594	3617	3598	2726
55°	2817	2873	2887	2892	2816	2515
65°	1969	2030	1886	1500	1462	1943
75°	1000	1063	775	537	514	1069
85°	183	120	94	101	101	236
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5065.6	5065.6	5065.6	5065.6	5065.6
2.5°	5038.9	5071.1	5049.8	5072.9	5092.3
5°	5025.5	5060.8	5039.5	5063.8	5068.0
7.5°	5003.7	5037.1	5017.6	5044.4	5051.0
10°	4970.9	5003.7	4988.5	5020.1	5026.1
12.5°	4926.5	4959.9	4948.4	4983.0	4987.3
15°	4874.3	4908.3	4900.4	4930.2	4934.4
17.5°	4813.0	4848.2	4839.1	4870.7	4873.7
20°	4739.5	4777.8	4769.9	4806.9	4803.3
22.5°	4656.9	4697.6	4691.5	4728.6	4717.6
25°	4569.4	4609.5	4602.2	4636.2	4627.7
27.5°	4466.8	4511.1	4504.5	4537.3	4523.9
30°	4358.7	4403.6	4401.2	4431.0	4417.6
32.5°	4242.1	4290.1	4287.6	4316.8	4296.2
35°	4117.6	4165.0	4165.0	4192.9	4170.4
37.5°	3985.8	4033.8	4034.4	4061.1	4039.9
40°	3843.7	3891.7	3894.7	3920.2	3900.8
42.5°	3694.3	3746.5	3749.0	3772.0	3753.8
45°	3534.6	3588.0	3593.5	3616.6	3597.7
47.5°	3367.6	3421.6	3426.5	3451.4	3438.0
50°	3193.9	3246.1	3252.8	3273.4	3252.2
52.5°	3010.5	3063.9	3073.0	3085.8	3076.1
55°	2816.7	2873.2	2887.2	2892.0	2815.5
57.5°	2616.3	2674.0	2687.4	2575.6	2329.7
60°	2409.8	2466.9	2479.7	2095.2	1920.3
62.5°	2194.8	2250.7	2264.7	1736.3	1680.4
65°	1968.9	2029.6	1886.3	1500.1	1462.4
67.5°	1736.9	1799.5	1426.6	1285.7	1263.2
70°	1492.8	1555.9	1174.5	1096.2	1090.7
72.5°	1258.4	1305.1	963.8	830.8	699.6
75°	1000.2	1063.4	774.9	536.9	514.4
77.5°	775.5	670.5	467.6	393.5	310.3
80°	552.7	448.2	306.1	163.4	154.3
82.5°	350.4	292.7	120.2	123.3	128.8
85°	182.8	120.2	94.1	100.8	101.4
87.5°	58.9	51.6	56.5	55.9	55.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)