

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-AI-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 (P23765)
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-AI-UNV-L840-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

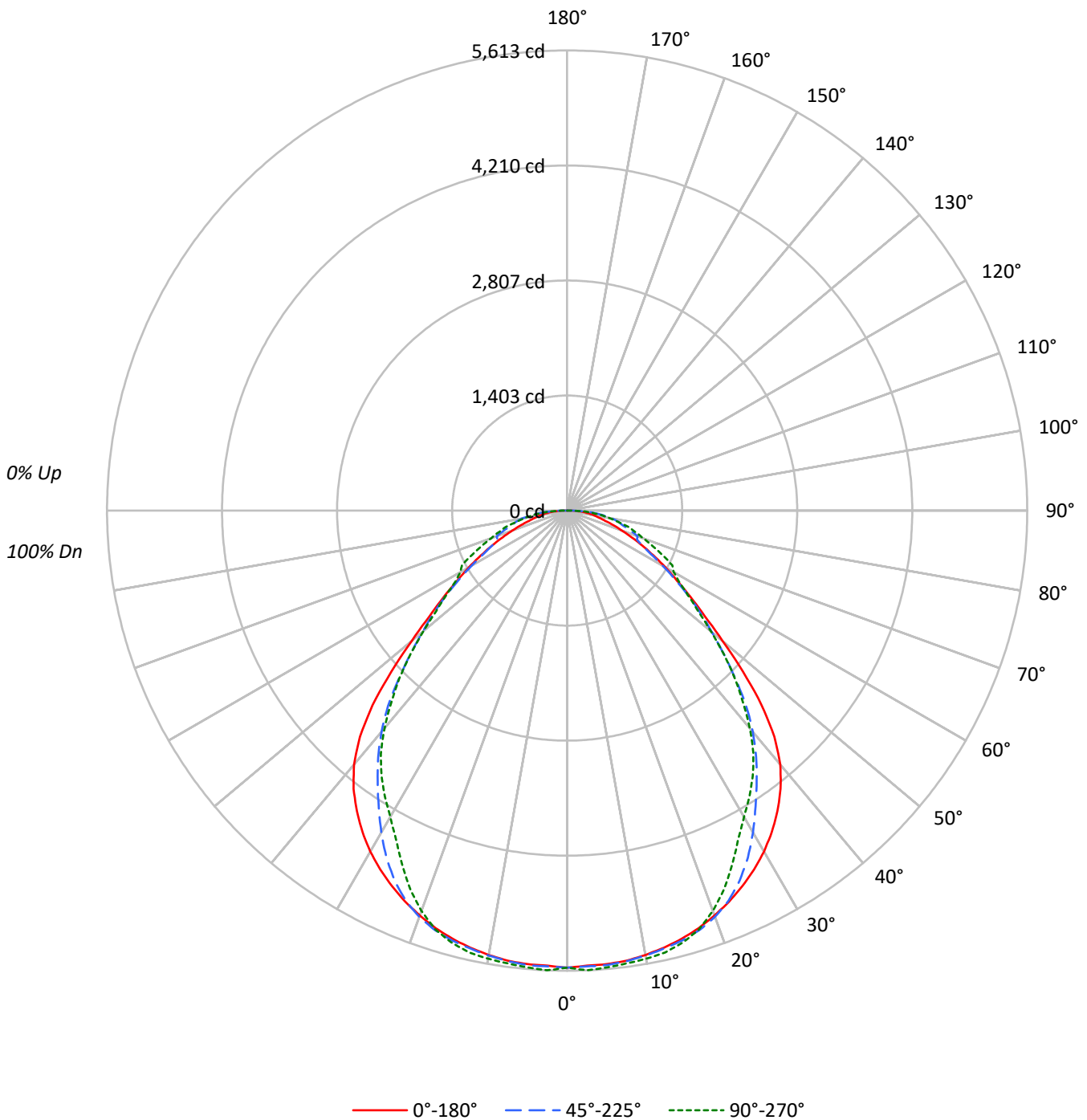
Lumens per Lamp: N/A
Luminaire Lumens: 12905.0 lumens
Efficiency: N/A
Efficacy: 135.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7502	7502	7502
5°	7501	7517	7554
10°	7520	7529	7585
15°	7531	7560	7596
20°	7524	7552	7440
25°	7505	7392	7071
30°	7461	7044	6700
35°	7348	6620	6482
40°	7102	6190	6088
45°	6384	5527	5507
50°	5178	4814	4781
55°	4299	4219	4218
60°	3722	3614	4040
65°	3226	3206	4072
70°	2782	3596	3882
75°	2494	3686	4047
80°	2593	4339	4060
85°	2944	5000	4639



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	530.8	4.1
10°-20°	1533.1	11.9
20°-30°	2277.0	17.6
30°-40°	2585.1	20.0
40°-50°	2310.9	17.9
50°-60°	1597.8	12.4
60°-70°	1054.3	8.2
70°-80°	711.3	5.5
80°-90°	304.6	2.4
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°	4341.0	33.6
0°-40°	6926.1	53.7
0°-60°	10834.8	84.0
0°-90°	12905.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12905.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5575	5575	5575	5575	5575	
5°	5554	5588	5566	5589	5593	529
15°	5407	5433	5427	5457	5454	1526
25°	5055	5103	4979	4831	4763	2329
35°	4474	4380	4030	3972	3946	2790
45°	3355	3071	2905	2927	2894	2551
55°	1833	1673	1799	1773	1798	1665
65°	1013	900	1007	1177	1279	1011
75°	480	604	709	758	778	524
85°	191	265	324	326	300	199
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5575.4	5575.4	5575.4	5575.4	5575.4
2.5°	5556.4	5591.1	5565.3	5589.2	5612.6
5°	5553.9	5588.0	5565.9	5588.6	5593.0
7.5°	5538.1	5569.7	5543.8	5565.9	5570.9
10°	5504.0	5541.3	5511.0	5545.1	5551.4
12.5°	5459.8	5497.7	5471.2	5517.9	5520.4
15°	5406.8	5432.7	5427.0	5457.3	5453.5
17.5°	5339.9	5369.5	5365.1	5372.7	5355.0
20°	5254.6	5288.1	5274.2	5239.5	5195.9
22.5°	5163.1	5203.5	5148.6	5060.8	4999.6
25°	5055.1	5103.1	4979.4	4831.0	4762.8
27.5°	4935.8	4978.7	4772.9	4591.1	4520.4
30°	4802.0	4820.3	4533.6	4360.7	4312.7
32.5°	4647.3	4620.8	4278.0	4163.7	4135.9
35°	4473.7	4379.6	4030.5	3971.8	3946.5
37.5°	4278.0	4105.6	3786.1	3759.0	3732.5
40°	4043.7	3789.3	3524.1	3506.5	3466.1
42.5°	3741.3	3445.2	3233.1	3212.3	3176.3
45°	3354.9	3070.8	2904.8	2926.9	2894.1
47.5°	2910.5	2695.2	2589.8	2650.4	2589.8
50°	2473.6	2329.0	2300.0	2354.9	2284.2
52.5°	2115.6	1985.6	2045.5	2055.0	2012.7
55°	1832.8	1673.0	1798.7	1773.4	1798.1
57.5°	1586.6	1407.9	1562.6	1533.5	1618.1
60°	1383.3	1182.5	1342.9	1336.5	1501.3
62.5°	1183.8	1023.4	1152.2	1245.0	1447.7
65°	1013.3	899.7	1007.0	1177.4	1279.1
67.5°	849.8	806.9	921.1	1015.8	1126.9
70°	707.1	729.2	914.2	896.5	986.8
72.5°	587.1	662.3	806.9	810.0	873.8
75°	479.8	603.6	709.0	757.6	778.4
77.5°	399.0	547.4	640.2	657.2	637.0
80°	334.6	482.3	560.0	552.4	524.0
82.5°	270.2	365.5	441.3	448.3	414.8
85°	190.7	265.2	323.9	325.8	300.5
87.5°	102.3	163.5	196.3	202.0	186.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)