

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-A-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 (P23761)
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-A-UNV-L840-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

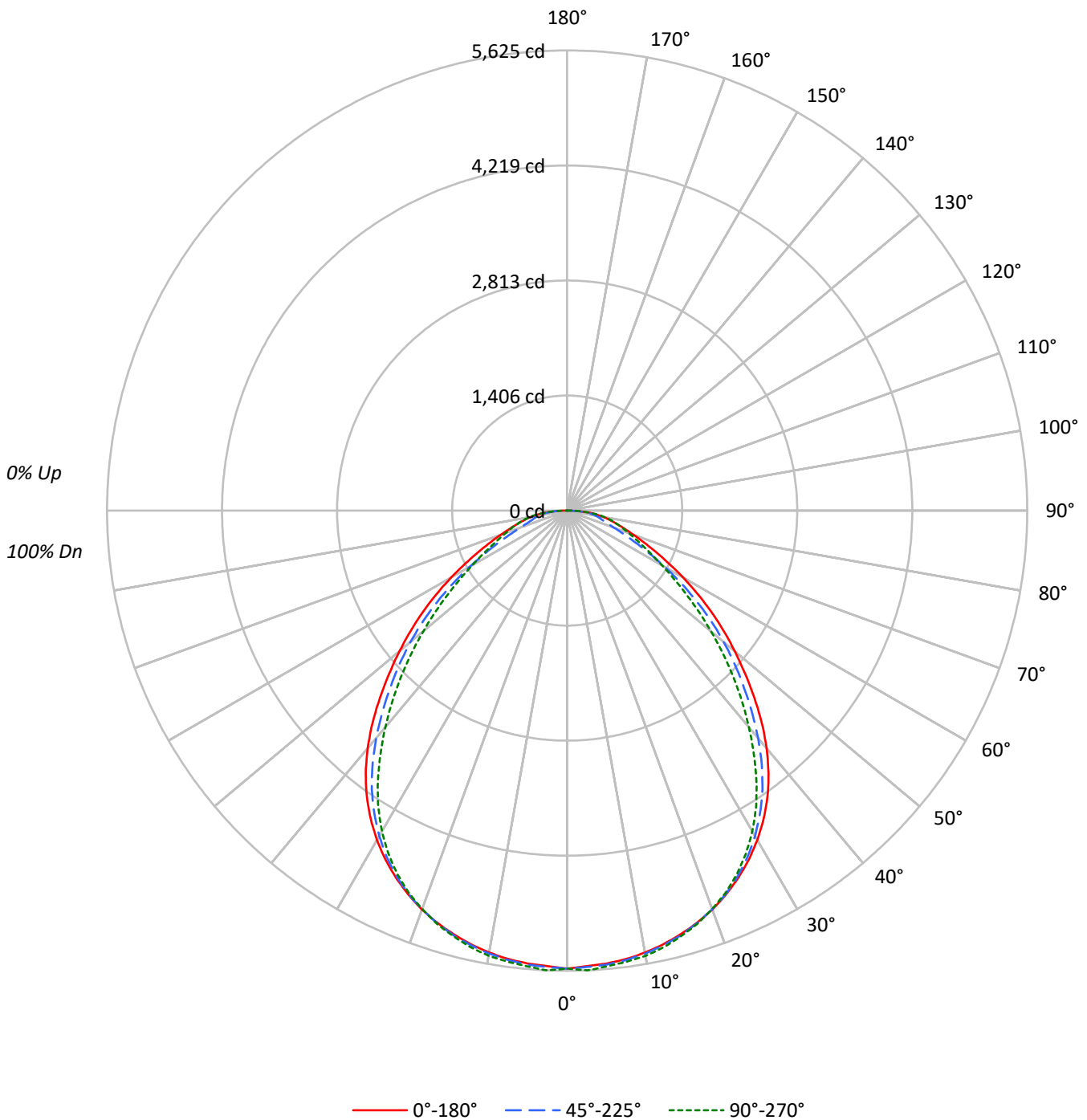
Lumens per Lamp: N/A
Luminaire Lumens: 12860.0 lumens
Efficiency: N/A
Efficacy: 135.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	75	70	90	81	75	69	79	73	68	76	71	67	73	69	65	63
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	52	46	72	60	52	46	58	51	46	56	50	45	55	49	45	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7532	7532	7532
5°	7506	7523	7553
10°	7495	7512	7550
15°	7470	7485	7502
20°	7431	7425	7420
25°	7350	7325	7284
30°	7223	7136	7032
35°	7013	6837	6626
40°	6665	6378	6072
45°	6157	5813	5461
50°	5597	5235	4804
55°	5032	4532	4153
60°	4404	3704	3603
65°	3797	2912	3252
70°	3385	2377	3135
75°	3243	2321	3276
80°	3508	2744	3649
85°	3938	3304	3977



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	530.6	4.1
10°-20°	1518.5	11.8
20°-30°	2271.5	17.7
30°-40°	2591.5	20.2
40°-50°	2359.0	18.3
50°-60°	1732.2	13.5
60°-70°	1022.8	8.0
70°-80°	586.2	4.6
80°-90°	247.8	1.9
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°	4320.5	33.6
0°-40°	6912.0	53.7
0°-60°	11003.2	85.6
0°-90°	12860.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12860.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5598	5598	5598	5598	5598	
5°	5557	5592	5570	5592	5592	528
15°	5363	5392	5373	5392	5386	1513
25°	4951	4969	4934	4932	4906	2279
35°	4270	4249	4162	4091	4034	2660
45°	3236	3217	3055	2918	2870	2494
55°	2145	2046	1932	1792	1770	1919
65°	1193	1041	915	979	1022	1200
75°	624	535	446	582	630	672
85°	255	236	214	252	258	267
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5598.2	5598.2	5598.2	5598.2	5598.2
2.5°	5572.3	5604.5	5584.3	5606.4	5625.3
5°	5557.1	5591.9	5569.8	5591.9	5592.5
7.5°	5529.4	5561.6	5540.1	5564.1	5561.6
10°	5485.8	5518.0	5498.4	5524.3	5526.2
12.5°	5430.2	5461.2	5441.0	5470.6	5465.6
15°	5362.7	5392.4	5373.4	5392.4	5386.0
17.5°	5283.1	5310.3	5285.7	5306.5	5295.8
20°	5189.7	5212.4	5185.9	5205.5	5182.1
22.5°	5077.9	5098.1	5070.4	5081.1	5057.1
25°	4951.0	4968.7	4934.0	4932.1	4906.2
27.5°	4809.6	4819.1	4774.9	4759.7	4730.1
30°	4649.3	4651.8	4593.1	4564.7	4526.1
32.5°	4469.3	4463.0	4387.9	4345.6	4298.2
35°	4269.8	4249.0	4162.5	4091.1	4034.3
37.5°	4044.4	4011.6	3908.1	3802.6	3748.3
40°	3794.4	3755.9	3631.5	3500.8	3457.3
42.5°	3522.3	3489.5	3343.0	3206.6	3163.7
45°	3235.7	3216.7	3055.1	2918.1	2870.1
47.5°	2949.0	2935.1	2777.3	2637.8	2579.7
50°	2673.8	2643.5	2500.8	2348.0	2295.0
52.5°	2406.7	2344.8	2219.2	2062.6	2023.5
55°	2145.3	2046.2	1931.9	1791.8	1770.3
57.5°	1886.5	1758.3	1647.2	1542.4	1541.8
60°	1636.5	1490.0	1376.3	1321.4	1339.1
62.5°	1402.2	1252.0	1128.9	1132.6	1164.8
65°	1192.6	1041.1	914.8	978.6	1021.5
67.5°	1012.7	868.1	739.9	858.6	899.7
70°	860.5	729.8	604.2	752.6	796.8
72.5°	732.4	622.5	509.5	664.2	709.0
75°	623.8	534.8	446.4	582.1	630.1
77.5°	535.4	456.5	400.3	503.8	553.7
80°	452.7	383.2	354.2	428.1	471.0
82.5°	358.6	310.6	293.6	347.9	370.0
85°	255.1	235.5	214.0	252.5	257.6
87.5°	140.2	145.2	120.0	145.2	145.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)