

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-CLWG-UNV-L850-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 (P33385)
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-CLWG-UNV-L850-ED1-U
Description: METALUX HIGH BAY LINEAR LED
WIDE DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

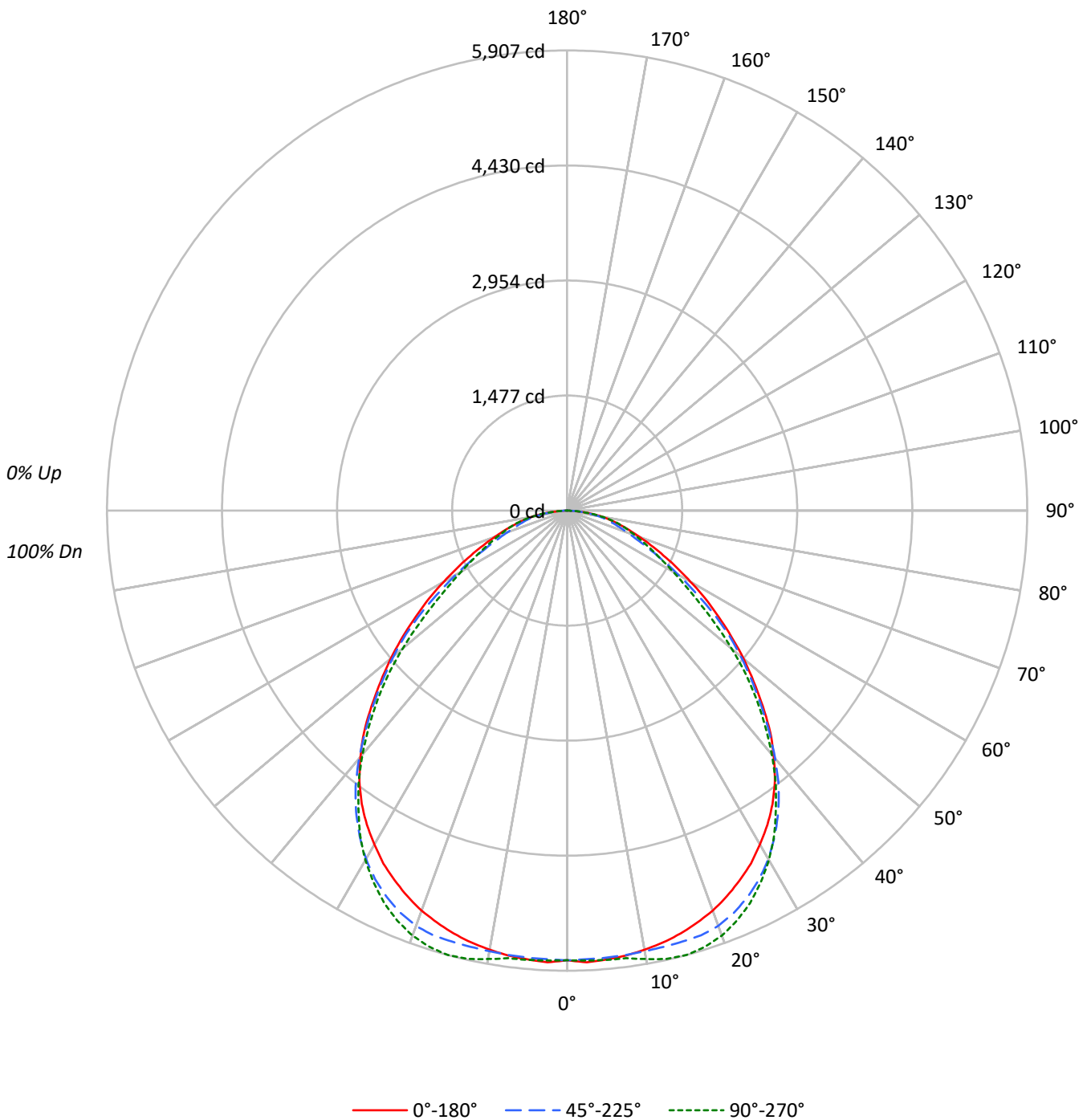
Lumens per Lamp: N/A
Luminaire Lumens: 14397.0 lumens
Efficiency: N/A
Efficacy: 151.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 95.2
Input Voltage (V): NR
Input Current (A_{in}): 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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86				86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73				73
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65	63				63
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55				55
5	79	67	58	52	77	65	57	52	63	56	51	61	55	50	60	54	50	48				48
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44	42				42
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38				38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34				34
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31				31
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28				28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7767	7767	7767
5°	7813	7781	7819
10°	7820	7846	7987
15°	7830	7977	8228
20°	7824	8123	8313
25°	7777	8130	8250
30°	7687	8023	8048
35°	7550	7763	7670
40°	7252	7297	7181
45°	6757	6686	6550
50°	6187	6087	5775
55°	5557	5351	4883
60°	4928	4427	4215
65°	4342	3678	3826
70°	3884	3192	3643
75°	3638	3104	3685
80°	3542	3138	3508
85°	2827	2482	2575



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	549.9	3.8
10°-20°	1619.8	11.3
20°-30°	2491.9	17.3
30°-40°	2908.2	20.2
40°-50°	2702.5	18.8
50°-60°	2003.2	13.9
60°-70°	1224.6	8.5
70°-80°	697.5	4.8
80°-90°	199.5	1.4
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°	4661.6	32.4
0°-40°	7569.8	52.6
0°-60°	12275.4	85.3
0°-90°	14397.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14397.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5773	5773	5773	5773	5773	
5°	5785	5758	5761	5756	5789	550
15°	5621	5618	5727	5840	5907	1587
25°	5238	5278	5476	5523	5557	2413
35°	4596	4632	4726	4687	4669	2864
45°	3551	3572	3514	3459	3442	2736
55°	2369	2309	2281	2119	2082	2126
65°	1364	1239	1155	1187	1202	1365
75°	700	657	597	680	709	749
85°	183	179	161	167	167	211
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5772.8	5772.8	5772.8	5772.8	5772.8
2.5°	5804.1	5771.3	5765.3	5751.9	5781.7
5°	5784.7	5757.9	5760.9	5756.4	5789.2
7.5°	5762.4	5743.0	5754.9	5753.4	5796.6
10°	5723.6	5713.2	5743.0	5775.8	5845.7
12.5°	5680.5	5670.0	5735.6	5818.9	5894.9
15°	5620.9	5617.9	5726.6	5839.8	5906.8
17.5°	5546.5	5550.9	5716.2	5813.0	5872.5
20°	5464.6	5472.0	5673.0	5751.9	5805.5
22.5°	5358.8	5384.2	5589.6	5655.2	5696.8
25°	5238.2	5278.4	5476.5	5522.6	5556.9
27.5°	5108.7	5148.9	5336.5	5360.3	5379.7
30°	4947.9	5004.5	5163.8	5166.8	5180.2
32.5°	4784.1	4834.7	4956.8	4943.4	4946.4
35°	4596.5	4632.2	4726.0	4687.3	4669.4
37.5°	4380.6	4399.9	4459.5	4401.4	4398.5
40°	4128.9	4154.3	4154.3	4073.9	4088.7
42.5°	3860.9	3869.9	3832.6	3756.7	3768.6
45°	3551.2	3572.1	3514.0	3458.9	3442.5
47.5°	3244.5	3265.3	3204.3	3140.3	3112.0
50°	2955.6	2945.2	2908.0	2799.3	2759.1
52.5°	2656.3	2623.6	2608.7	2449.4	2403.2
55°	2369.0	2309.4	2281.1	2118.8	2081.6
57.5°	2102.4	1995.2	1941.6	1815.1	1800.2
60°	1831.4	1710.8	1645.3	1563.4	1566.4
62.5°	1585.8	1459.2	1380.3	1356.5	1366.9
65°	1363.9	1238.8	1155.4	1186.7	1201.6
67.5°	1162.9	1060.2	966.3	1039.3	1054.2
70°	987.2	905.3	811.5	918.7	926.1
72.5°	841.3	774.3	695.4	796.6	813.0
75°	699.8	656.6	597.1	680.5	708.8
77.5°	576.2	542.0	507.7	558.4	589.6
80°	457.1	422.9	405.0	431.8	452.7
82.5°	323.1	300.8	282.9	302.3	312.7
85°	183.1	178.7	160.8	166.8	166.8
87.5°	41.7	47.6	53.6	49.1	41.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)