

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-L835-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-L835-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: 13178.0 lumens
Efficiency: N/A
Efficacy: 138.4 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

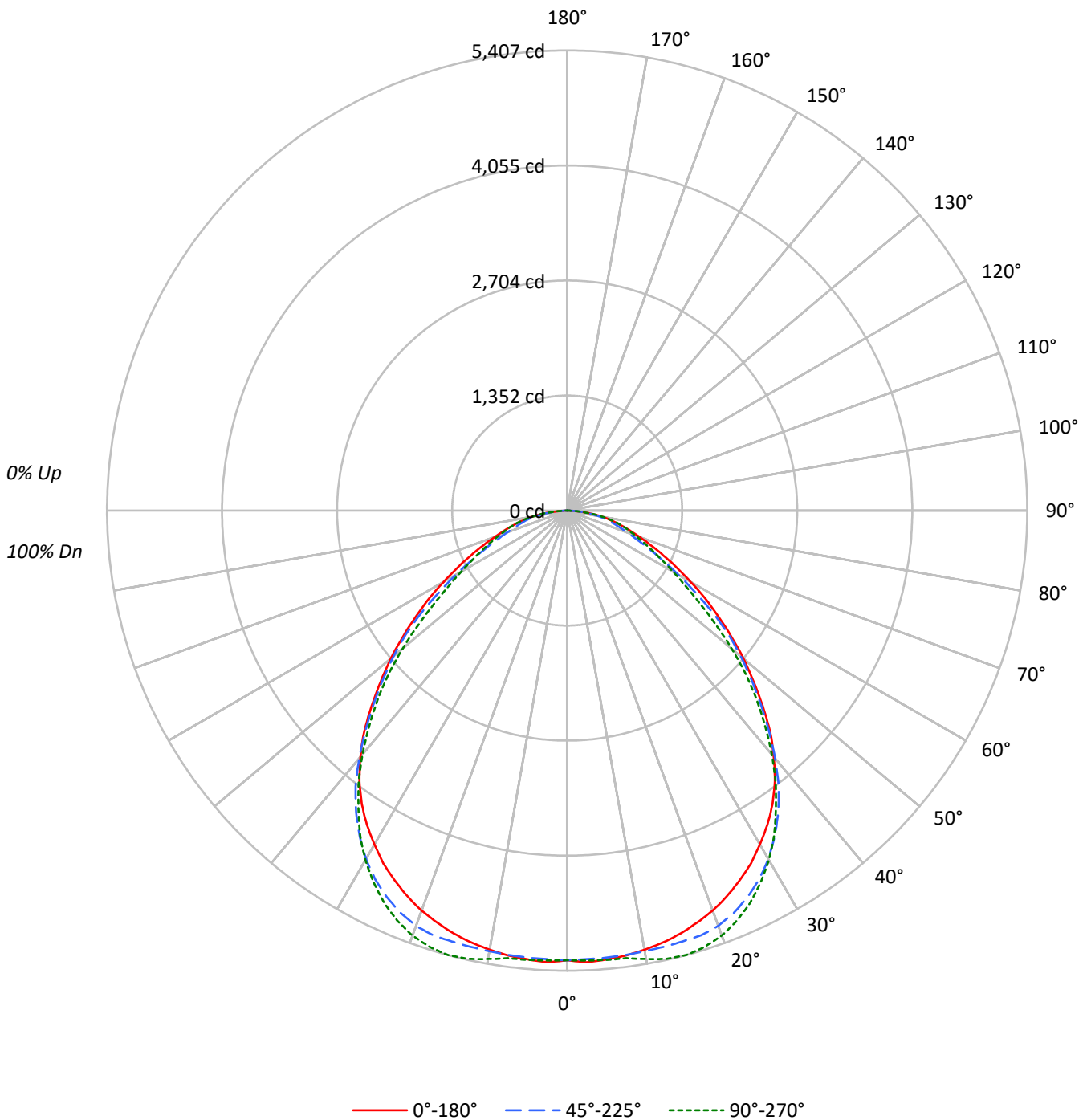
Input Watts (W): 95.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-15SE-W-CLWG-UNV-L835-ED1-U

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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	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	65	57	52	63	56	51	61	55	50	60	54	50	48
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44	42
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7110	7110	7110
5°	7151	7122	7157
10°	7158	7182	7311
15°	7167	7301	7531
20°	7162	7435	7609
25°	7118	7442	7551
30°	7036	7343	7367
35°	6911	7105	7020
40°	6638	6679	6573
45°	6185	6120	5996
50°	5663	5572	5286
55°	5087	4898	4469
60°	4511	4053	3858
65°	3975	3367	3502
70°	3555	2922	3335
75°	3330	2841	3372
80°	3242	2872	3210
85°	2587	2272	2356



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	503.4	3.8
10°-20°	1482.7	11.3
20°-30°	2280.9	17.3
30°-40°	2661.9	20.2
40°-50°	2473.6	18.8
50°-60°	1833.6	13.9
60°-70°	1120.9	8.5
70°-80°	638.4	4.8
80°-90°	182.6	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°	4266.9	32.4
0°-40°	6928.9	52.6
0°-60°	11236.1	85.3
0°-90°	13178.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13178.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5284	5284	5284	5284	5284	
5°	5295	5270	5273	5269	5299	504
15°	5145	5142	5242	5345	5407	1452
25°	4795	4832	5013	5055	5086	2209
35°	4207	4240	4326	4290	4274	2621
45°	3250	3270	3216	3166	3151	2505
55°	2168	2114	2088	1939	1905	1946
65°	1248	1134	1058	1086	1100	1249
75°	641	601	546	623	649	685
85°	168	164	147	153	153	193
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5284.0	5284.0	5284.0	5284.0	5284.0
2.5°	5312.6	5282.6	5277.2	5264.9	5292.2
5°	5294.9	5270.4	5273.1	5269.0	5299.0
7.5°	5274.5	5256.7	5267.6	5266.3	5305.8
10°	5239.0	5229.5	5256.7	5286.7	5350.8
12.5°	5199.5	5190.0	5249.9	5326.2	5395.8
15°	5145.0	5142.3	5241.7	5345.3	5406.7
17.5°	5076.8	5080.9	5232.2	5320.8	5375.3
20°	5001.9	5008.7	5192.7	5264.9	5314.0
22.5°	4905.1	4928.3	5116.4	5176.3	5214.5
25°	4794.7	4831.5	5012.8	5055.0	5086.4
27.5°	4676.1	4712.9	4884.7	4906.5	4924.2
30°	4528.9	4580.7	4726.6	4729.3	4741.6
32.5°	4379.0	4425.4	4537.1	4524.9	4527.6
35°	4207.3	4240.0	4325.9	4290.4	4274.1
37.5°	4009.7	4027.4	4081.9	4028.8	4026.0
40°	3779.3	3802.5	3802.5	3728.9	3742.5
42.5°	3534.0	3542.2	3508.1	3438.6	3449.5
45°	3250.5	3269.6	3216.5	3166.0	3151.0
47.5°	2969.8	2988.9	2933.0	2874.4	2848.5
50°	2705.4	2695.8	2661.8	2562.3	2525.5
52.5°	2431.4	2401.4	2387.8	2242.0	2199.7
55°	2168.4	2113.9	2088.0	1939.4	1905.3
57.5°	1924.4	1826.3	1777.2	1661.4	1647.8
60°	1676.4	1566.0	1506.0	1431.1	1433.8
62.5°	1451.5	1335.7	1263.4	1241.6	1251.2
65°	1248.4	1133.9	1057.6	1086.2	1099.9
67.5°	1064.4	970.4	884.5	951.3	964.9
70°	903.6	828.6	742.8	840.9	847.7
72.5°	770.0	708.7	636.5	729.2	744.1
75°	640.6	601.0	546.5	622.8	648.7
77.5°	527.4	496.1	464.8	511.1	539.7
80°	418.4	387.1	370.7	395.2	414.3
82.5°	295.8	275.3	259.0	276.7	286.2
85°	167.6	163.5	147.2	152.6	152.6
87.5°	38.2	43.6	49.1	45.0	38.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)