

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-LD5-15HE-W-CL-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 (P23762)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-15HE-W-CL-UNV-L835-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

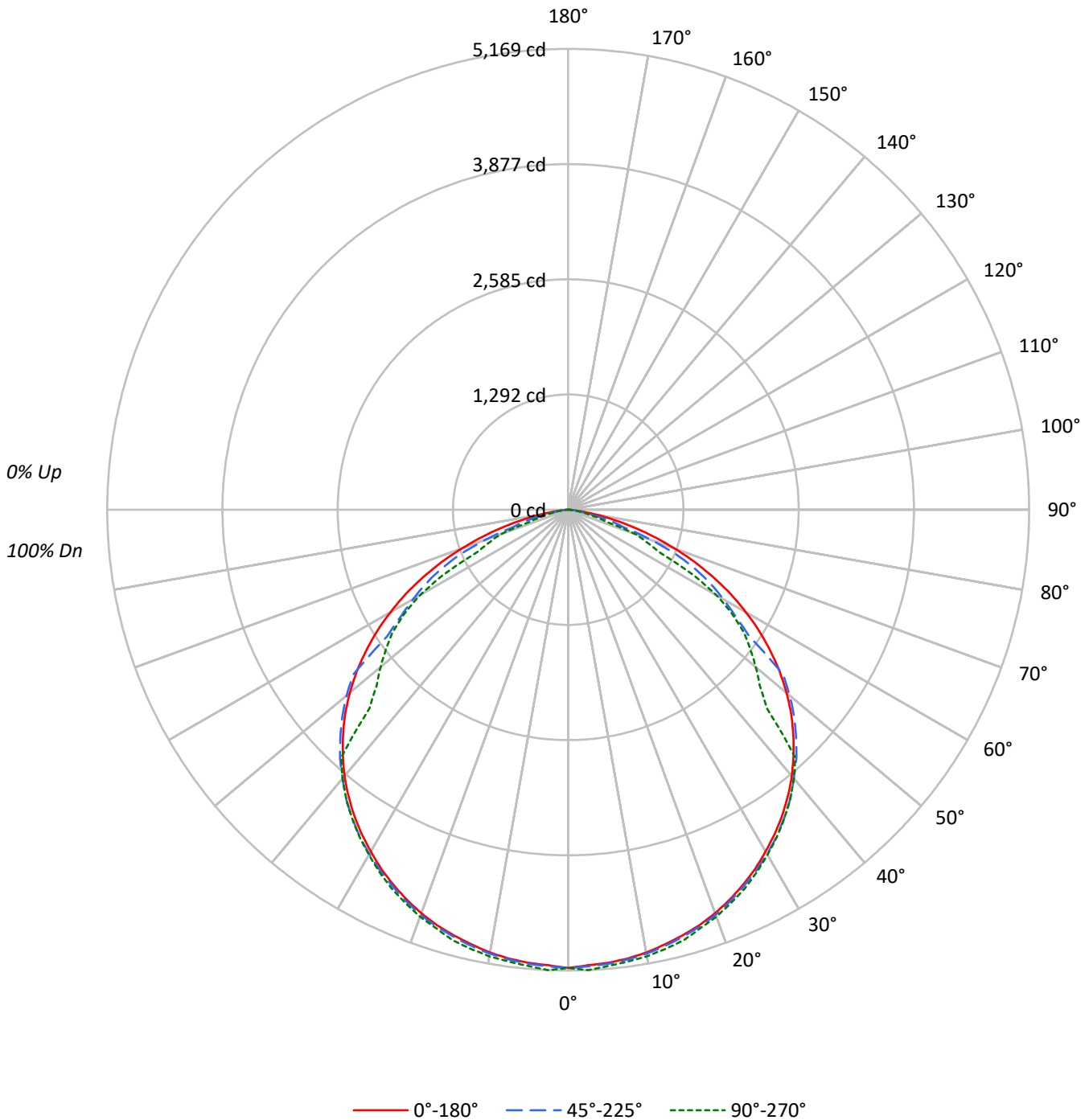
Lumens per Lamp: N/A
Luminaire Lumens: 13894.0 lumens
Efficiency: N/A
Efficacy: 151.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 91.8
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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6915	6915	6915
5°	6890	6905	6939
10°	6889	6909	6949
15°	6889	6910	6965
20°	6897	6923	6955
25°	6889	6915	6957
30°	6876	6927	6942
35°	6873	6936	6941
40°	6852	6912	6912
45°	6793	6875	5990
50°	6688	6789	5748
55°	6498	5811	5646
60°	6193	5402	5158
65°	5727	5014	3572
70°	4987	3902	3183
75°	3939	2619	1711
80°	2536	1251	1067
85°	1044	763	840



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	487.5	3.5
10°-20°	1405.2	10.1
20°-30°	2154.4	15.5
30°-40°	2640.5	19.0
40°-50°	2714.6	19.5
50°-60°	2316.8	16.7
60°-70°	1531.7	11.0
70°-80°	567.5	4.1
80°-90°	75.9	0.5
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°	4047.0	29.1
0°-40°	6687.5	48.1
0°-60°	11719.0	84.3
0°-90°	13894.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13894.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5139	5139	5139	5139	5139	
5°	5101	5137	5112	5132	5138	485
15°	4945	4975	4960	4998	5000	1397
25°	4641	4665	4658	4700	4686	2140
35°	4184	4213	4223	4249	4226	2617
45°	3570	3606	3613	3608	3148	2751
55°	2770	2821	2477	2405	2407	2472
65°	1799	1814	1575	1295	1122	1774
75°	758	664	504	338	329	813
85°	68	48	49	54	54	112
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5139.3	5139.3	5139.3	5139.3	5139.3
2.5°	5114.3	5146.2	5127.4	5151.2	5169.4
5°	5101.2	5136.8	5112.4	5132.5	5137.5
7.5°	5078.6	5111.8	5089.3	5115.6	5111.8
10°	5042.3	5072.4	5056.7	5084.3	5086.1
12.5°	4996.0	5026.1	5011.7	5045.5	5044.8
15°	4945.4	4975.4	4960.4	4997.9	5000.4
17.5°	4885.9	4913.4	4902.2	4936.6	4922.8
20°	4817.1	4840.9	4835.2	4867.8	4857.7
22.5°	4732.6	4757.0	4751.4	4788.9	4773.9
25°	4640.6	4665.0	4658.1	4700.1	4686.3
27.5°	4541.1	4564.3	4563.6	4603.1	4581.8
30°	4426.0	4456.6	4458.5	4493.6	4468.5
32.5°	4312.1	4340.9	4349.0	4374.7	4353.4
35°	4184.4	4213.2	4222.6	4248.9	4225.7
37.5°	4046.8	4071.2	4088.1	4107.5	4089.3
40°	3901.0	3922.9	3935.4	3959.2	3935.4
42.5°	3738.3	3769.6	3787.1	3804.0	3765.2
45°	3569.9	3605.6	3613.1	3607.5	3148.2
47.5°	3391.6	3430.4	3434.8	2995.5	2911.0
50°	3195.1	3243.9	3243.3	2768.3	2745.8
52.5°	2990.5	3037.4	3035.5	2590.6	2575.6
55°	2770.2	2820.9	2477.4	2405.4	2406.7
57.5°	2545.6	2581.9	2222.7	2225.8	2184.5
60°	2301.5	2335.9	2007.4	1988.0	1916.7
62.5°	2056.9	2071.3	1799.0	1704.6	1568.8
65°	1799.0	1814.1	1575.0	1295.3	1122.0
67.5°	1534.4	1549.4	1307.2	963.7	950.5
70°	1267.8	1145.1	991.8	802.8	809.1
72.5°	1005.0	879.8	648.3	622.0	449.3
75°	757.8	663.9	503.7	338.5	329.1
77.5°	527.5	457.4	269.7	230.9	215.9
80°	327.3	229.7	161.4	143.3	137.7
82.5°	165.8	132.0	87.6	87.6	87.6
85°	67.6	48.2	49.4	53.8	54.4
87.5°	14.4	19.4	23.8	24.4	23.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)