

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-N-CL-UNV-L735-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 (P23768)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-15HE-N-CL-UNV-L735-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

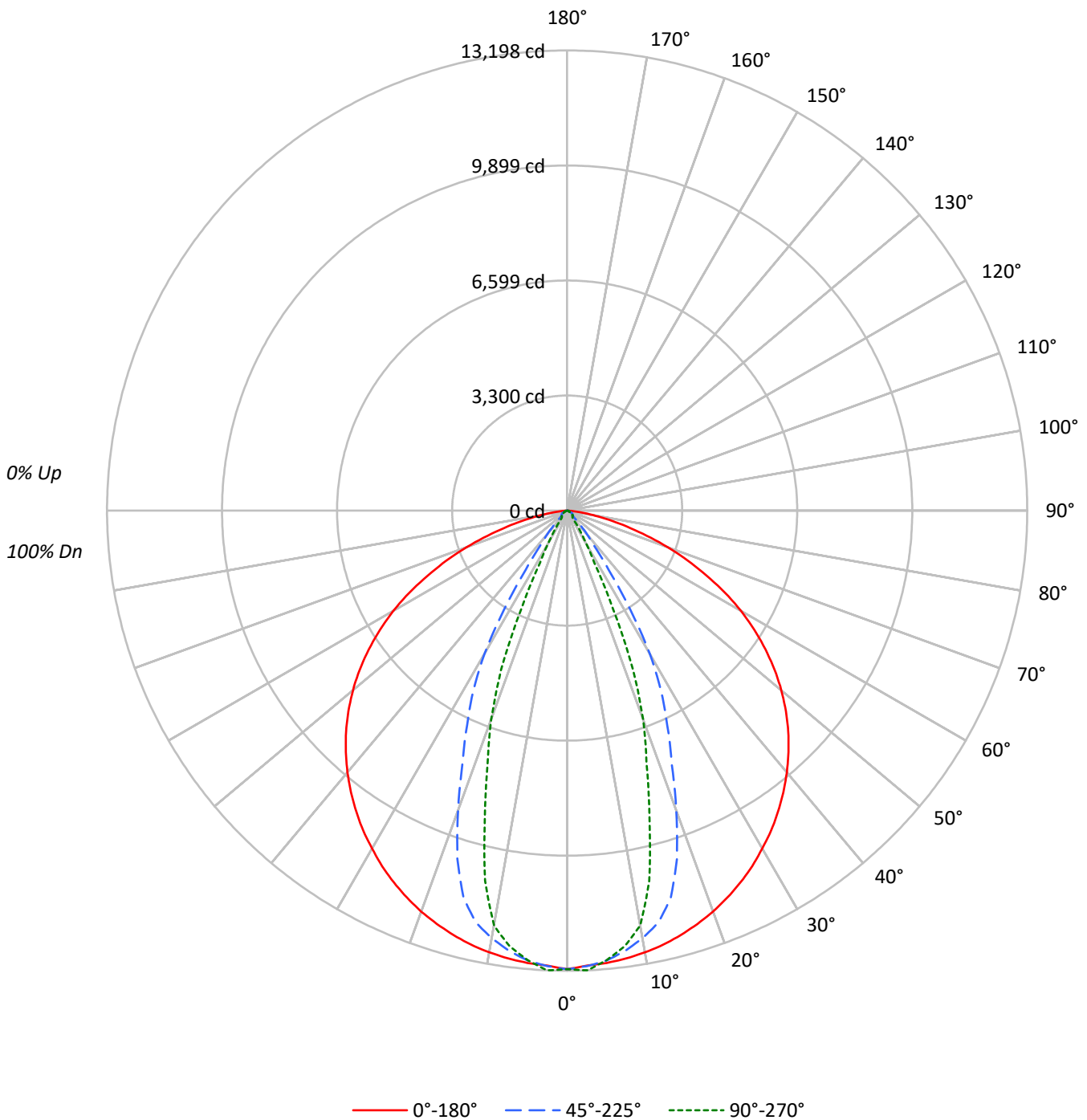
Lumens per Lamp: N/A
Luminaire Lumens: 14068.0 lumens
Efficiency: N/A
Efficacy: 153.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	112	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51
8	72	61	55	50	71	61	54	50	60	54	49	59	53	49	58	53	49	47
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17699	17699	17699
5°	17590	17498	17485
10°	17578	17014	16512
15°	17558	15999	12696
20°	17524	13093	9107
25°	17469	10088	4628
30°	17386	7362	1684
35°	17324	3381	586
40°	17217	1535	404
45°	17064	573	410
50°	16792	416	431
55°	16295	437	328
60°	15485	467	290
65°	14043	356	236
70°	12040	257	217
75°	9203	228	206
80°	5758	214	224
85°	1819	250	301



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1224.6	8.7
10°-20°	3084.9	21.9
20°-30°	3359.6	23.9
30°-40°	2513.2	17.9
40°-50°	1807.0	12.8
50°-60°	1109.8	7.9
60°-70°	638.6	4.5
70°-80°	285.0	2.0
80°-90°	45.2	0.3
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°	7669.2	54.5
0°-40°	10182.4	72.4
0°-60°	13099.2	93.1
0°-90°	14068.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14068.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13154	13154	13154	13154	13154	
5°	13023	13085	12955	12968	12946	###
15°	12605	12363	11486	9864	9115	3558
25°	11767	10923	6795	4360	3117	5424
35°	10547	7564	2058	605	357	6597
45°	8968	4250	301	223	215	6909
55°	6946	883	186	180	140	6193
65°	4411	97	112	93	74	4366
75°	1770	59	44	45	40	1921
85°	118	11	16	21	20	235
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13154.0	13154.0	13154.0	13154.0	13154.0
2.5°	13062.4	13147.9	13075.9	13140.5	13197.7
5°	13023.4	13084.6	12955.4	12967.5	12946.0
7.5°	12956.1	12970.9	12737.3	12647.1	12603.3
10°	12865.9	12826.1	12453.2	12238.5	12085.7
12.5°	12752.1	12620.8	12099.9	11333.2	10876.1
15°	12604.7	12363.0	11486.0	9864.5	9114.6
17.5°	12429.0	12093.8	10469.6	8221.4	7572.5
20°	12238.5	11796.3	9144.2	6990.3	6360.2
22.5°	12013.7	11416.0	7837.0	5813.7	4948.7
25°	11766.7	10922.6	6795.1	4359.7	3117.2
27.5°	11500.1	10271.7	5830.5	2673.6	1685.5
30°	11190.5	9479.4	4738.7	1500.4	1083.7
32.5°	10888.3	8555.9	3385.1	999.6	692.6
35°	10547.0	7564.4	2058.4	605.1	356.7
37.5°	10185.5	6663.1	1288.3	329.2	246.4
40°	9802.5	5808.3	873.7	233.6	230.2
42.5°	9393.3	5034.9	547.2	222.1	229.5
45°	8967.9	4250.0	300.9	222.8	215.4
47.5°	8506.1	3397.9	210.0	210.7	210.0
50°	8022.1	2437.3	198.6	208.0	206.0
52.5°	7500.5	1513.2	199.2	203.3	182.4
55°	6946.5	883.1	186.5	180.4	140.0
57.5°	6364.3	550.6	182.4	148.8	125.9
60°	5754.4	290.8	173.7	133.9	107.7
62.5°	5104.9	143.4	139.3	114.4	88.2
65°	4410.9	96.9	111.7	92.9	74.0
67.5°	3740.5	87.5	84.1	76.1	64.6
70°	3060.6	80.1	65.3	66.6	55.2
72.5°	2393.6	72.7	52.5	57.2	46.4
75°	1770.3	58.6	43.8	45.1	39.7
77.5°	1231.8	45.8	34.3	38.4	37.0
80°	743.1	28.9	27.6	31.6	28.9
82.5°	360.1	18.8	21.5	24.9	22.9
85°	117.8	11.4	16.2	20.9	19.5
87.5°	14.8	6.7	13.5	18.2	16.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)