

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-CLI-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 (P23766)
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-CLI-UNV-L735-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

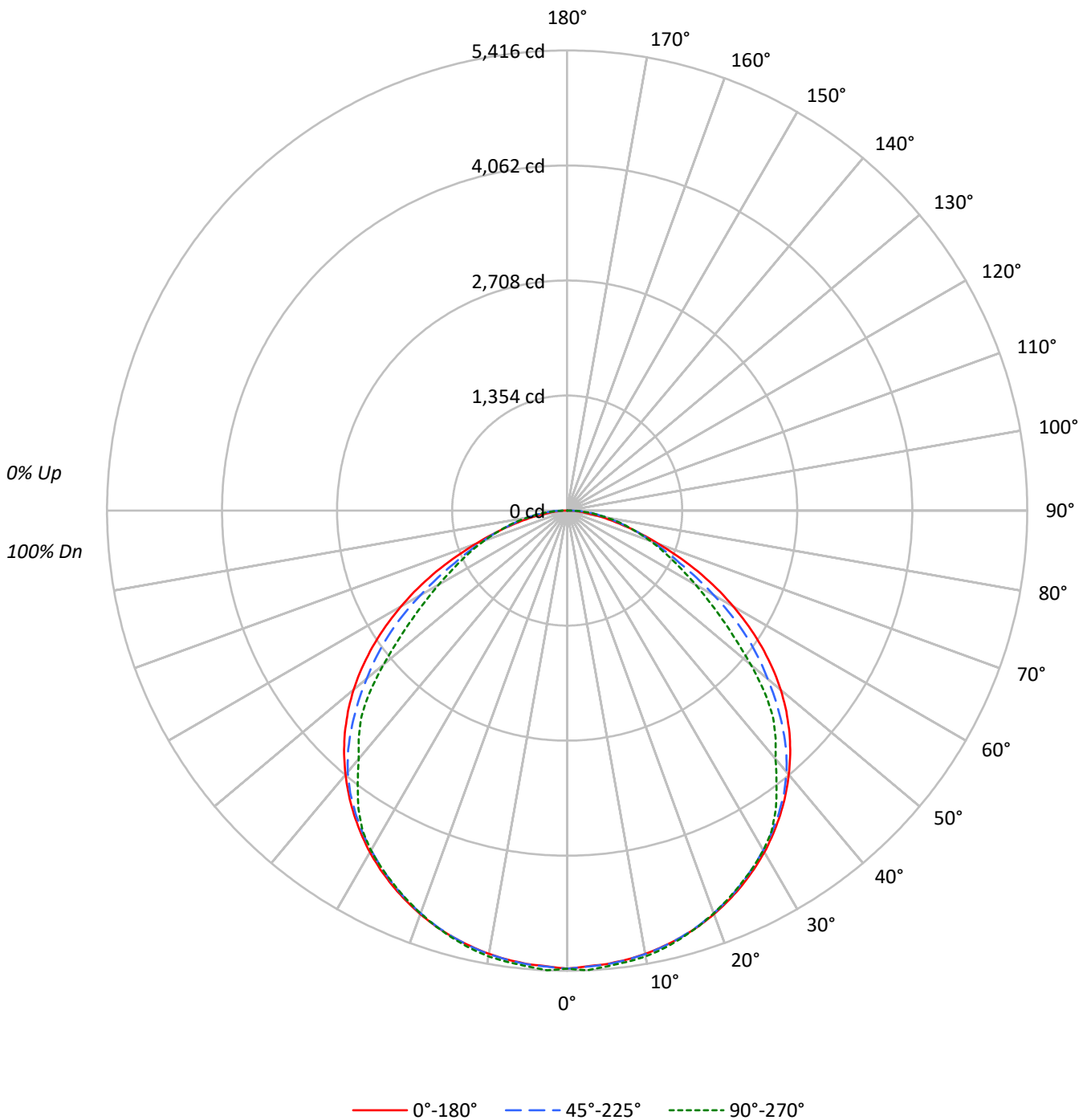
Lumens per Lamp: N/A
Luminaire Lumens: 14485.0 lumens
Efficiency: N/A
Efficacy: 157.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71					71			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61					61			
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35					35			
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31					31			
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7254	7254	7254
5°	7235	7240	7272
10°	7239	7242	7280
15°	7239	7239	7256
20°	7238	7221	7223
25°	7227	7200	7191
30°	7215	7172	7176
35°	7181	7137	7035
40°	7130	7057	6701
45°	7039	6814	6516
50°	6870	6451	5901
55°	6557	6034	5218
60°	6085	5384	4706
65°	5409	4661	4327
70°	4489	4166	4079
75°	3631	3812	3859
80°	2884	3646	3631
85°	2259	3917	3737



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	511.3	3.5
10°-20°	1470.7	10.2
20°-30°	2242.5	15.5
30°-40°	2713.1	18.7
40°-50°	2748.2	19.0
50°-60°	2271.4	15.7
60°-70°	1500.2	10.4
70°-80°	782.3	5.4
80°-90°	245.3	1.7
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°	4224.5	29.2
0°-40°	6937.6	47.9
0°-60°	11957.2	82.5
0°-90°	14485.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14485.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5391	5391	5391	5391	5391	
5°	5356	5389	5360	5384	5384	509
15°	5197	5224	5197	5213	5209	1468
25°	4868	4887	4850	4862	4844	2245
35°	4372	4378	4345	4339	4283	2735
45°	3700	3690	3581	3470	3424	2849
55°	2795	2754	2572	2322	2224	2492
65°	1699	1650	1464	1369	1359	1678
75°	698	711	733	743	742	761
85°	146	188	254	252	242	178
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5391.4	5391.4	5391.4	5391.4	5391.4
2.5°	5368.7	5400.5	5373.9	5397.2	5416.0
5°	5356.4	5388.8	5360.3	5383.6	5384.3
7.5°	5332.5	5364.9	5335.7	5359.0	5358.4
10°	5298.2	5328.6	5300.8	5328.6	5328.6
12.5°	5251.6	5281.4	5254.2	5280.1	5276.2
15°	5197.2	5223.8	5196.6	5212.8	5208.9
17.5°	5133.2	5157.1	5126.7	5140.3	5132.5
20°	5054.8	5076.8	5043.2	5060.7	5044.5
22.5°	4966.8	4987.5	4953.2	4966.2	4948.0
25°	4867.8	4887.2	4849.7	4862.0	4843.8
27.5°	4761.0	4778.5	4736.4	4751.3	4737.1
30°	4643.9	4652.3	4616.0	4635.4	4618.6
32.5°	4513.1	4518.3	4486.6	4504.1	4475.6
35°	4372.0	4377.8	4344.8	4339.0	4283.3
37.5°	4221.2	4223.8	4192.7	4140.3	4048.4
40°	4059.4	4058.1	4018.0	3897.0	3815.4
42.5°	3886.6	3885.9	3815.4	3677.5	3630.9
45°	3699.5	3689.8	3581.1	3469.8	3424.5
47.5°	3498.9	3488.6	3336.5	3247.8	3144.9
50°	3282.1	3264.0	3082.1	2961.1	2819.3
52.5°	3048.4	3020.6	2835.5	2640.0	2506.1
55°	2795.4	2753.9	2572.1	2322.2	2224.5
57.5°	2532.0	2470.5	2293.8	2050.4	1970.8
60°	2261.4	2192.8	2000.6	1800.6	1748.8
62.5°	1983.1	1915.1	1719.0	1568.2	1539.8
65°	1699.0	1649.8	1464.0	1368.9	1359.2
67.5°	1407.7	1390.2	1248.5	1200.0	1196.1
70°	1141.1	1137.8	1058.9	1034.3	1036.9
72.5°	911.9	908.1	896.4	884.1	884.8
75°	698.4	710.7	733.3	743.0	742.4
77.5°	521.0	546.3	594.2	613.6	610.3
80°	372.2	409.7	470.5	488.7	468.6
82.5°	247.9	287.4	359.2	361.8	345.6
85°	146.3	188.3	253.7	251.8	242.1
87.5°	72.5	113.3	152.1	145.6	139.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)