

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-AWG-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 (P23764)
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-AWG-UNV-L735-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

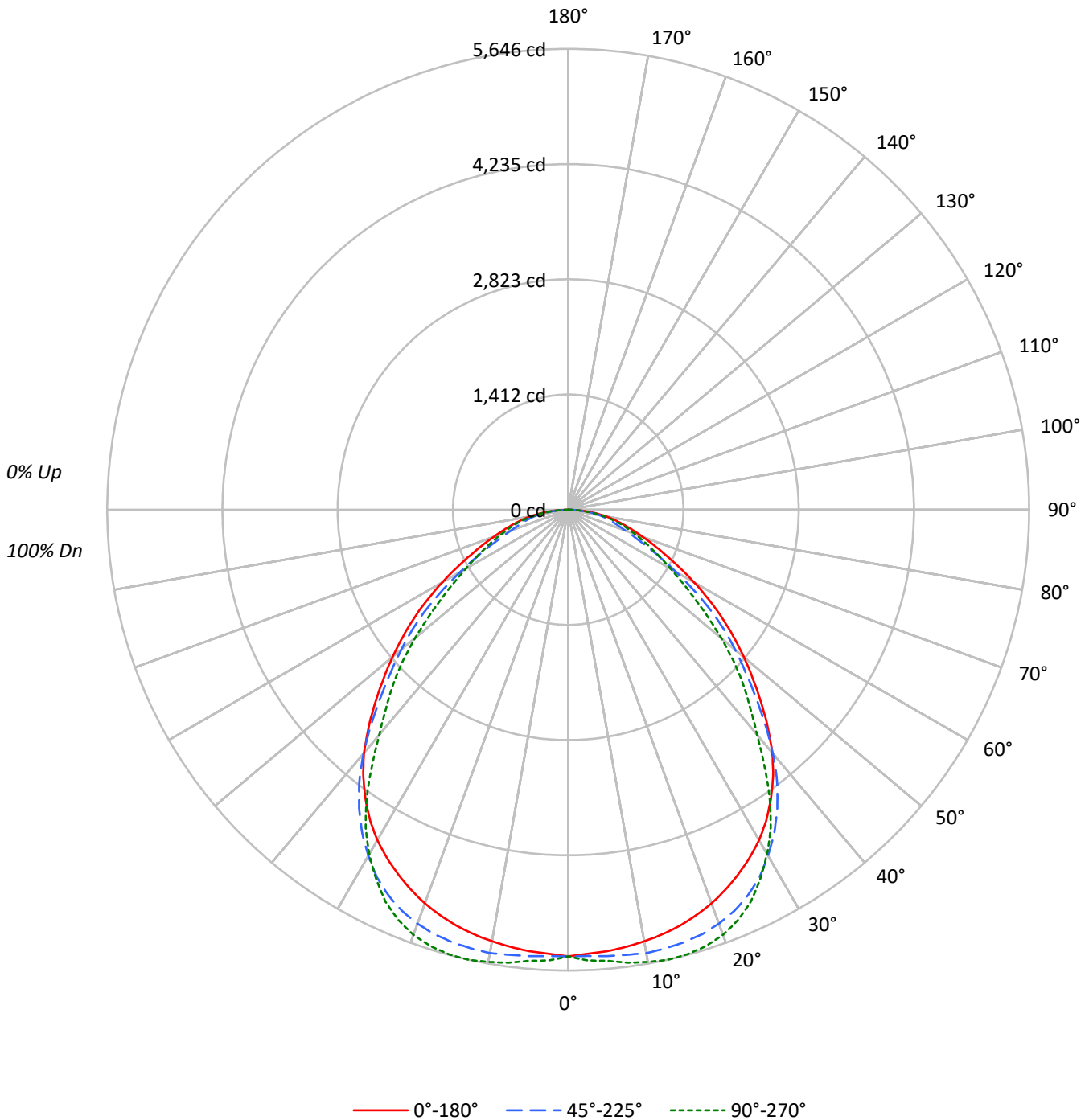
Lumens per Lamp: N/A
Luminaire Lumens: 13565.0 lumens
Efficiency: N/A
Efficacy: 147.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	85	81	88	83	79	85	81	77	82	78	75	73
3	92	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65	63
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50	48
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	54	49	44	42
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38
8	63	50	42	37	62	50	42	37	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7363	7363	7363
5°	7334	7416	7492
10°	7336	7535	7687
15°	7350	7640	7855
20°	7348	7727	7935
25°	7317	7737	7863
30°	7262	7608	7568
35°	7109	7333	7066
40°	6831	6850	6317
45°	6358	6176	5775
50°	5877	5585	5117
55°	5380	4949	4416
60°	4797	4108	3899
65°	4207	3381	3583
70°	3799	2912	3412
75°	3631	2855	3402
80°	3660	3022	3319
85°	3242	2768	2898



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	525.6	3.9
10°-20°	1549.1	11.4
20°-30°	2376.0	17.5
30°-40°	2732.8	20.1
40°-50°	2492.5	18.4
50°-60°	1868.1	13.8
60°-70°	1149.1	8.5
70°-80°	658.5	4.9
80°-90°	213.2	1.6
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
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0°-30°	4450.7	32.8
0°-40°	7183.5	53.0
0°-60°	11544.2	85.1
0°-90°	13565.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13565.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5472	5472	5472	5472	5472	
5°	5430	5485	5491	5536	5547	516
15°	5277	5394	5485	5602	5639	1490
25°	4928	5070	5212	5292	5296	2271
35°	4328	4412	4464	4391	4302	2699
45°	3341	3414	3246	3078	3035	2579
55°	2293	2208	2110	1924	1882	2049
65°	1321	1182	1062	1095	1125	1329
75°	698	626	549	629	654	747
85°	210	198	179	189	188	234
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5472.0	5472.0	5472.0	5472.0	5472.0
2.5°	5446.2	5485.3	5472.7	5504.8	5528.5
5°	5430.1	5485.3	5490.8	5536.2	5546.7
7.5°	5402.9	5474.8	5499.9	5580.2	5598.3
10°	5369.4	5456.0	5515.3	5601.8	5626.2
12.5°	5329.0	5429.5	5504.8	5611.5	5646.4
15°	5276.7	5393.9	5484.6	5601.8	5638.8
17.5°	5210.4	5346.4	5452.5	5567.6	5606.0
20°	5132.2	5276.0	5396.7	5514.6	5541.8
22.5°	5038.0	5182.5	5319.9	5426.0	5440.6
25°	4928.5	5070.1	5211.8	5292.0	5296.2
27.5°	4809.2	4941.1	5073.6	5116.9	5098.0
30°	4674.5	4792.5	4897.1	4906.2	4871.3
32.5°	4514.8	4620.8	4695.5	4675.9	4617.3
35°	4327.8	4412.2	4464.5	4391.3	4302.0
37.5°	4122.7	4186.2	4203.6	4044.5	3942.7
40°	3888.9	3943.4	3900.1	3678.9	3596.6
42.5°	3619.6	3682.4	3571.5	3353.1	3302.9
45°	3341.3	3413.8	3245.7	3078.2	3035.0
47.5°	3068.5	3134.7	2944.3	2809.6	2745.4
50°	2807.5	2836.1	2668.0	2515.9	2444.7
52.5°	2550.8	2522.2	2402.9	2213.8	2151.0
55°	2293.3	2208.2	2109.8	1923.5	1882.4
57.5°	2035.2	1916.6	1809.1	1666.1	1650.0
60°	1782.6	1636.8	1526.6	1441.4	1449.1
62.5°	1541.9	1393.3	1275.4	1248.2	1277.5
65°	1321.4	1181.9	1061.9	1094.7	1125.4
67.5°	1137.9	1004.0	881.9	965.6	990.0
70°	965.6	857.5	740.3	848.4	867.2
72.5°	828.2	736.1	634.2	739.6	755.6
75°	698.4	625.8	549.1	628.6	654.4
77.5°	585.4	525.4	473.0	519.8	547.7
80°	472.3	421.4	390.0	410.9	428.4
82.5°	346.1	313.3	290.2	299.3	302.1
85°	210.0	198.1	179.3	189.1	187.7
87.5°	69.1	78.8	83.0	74.7	70.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)