

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-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 (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-L835-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

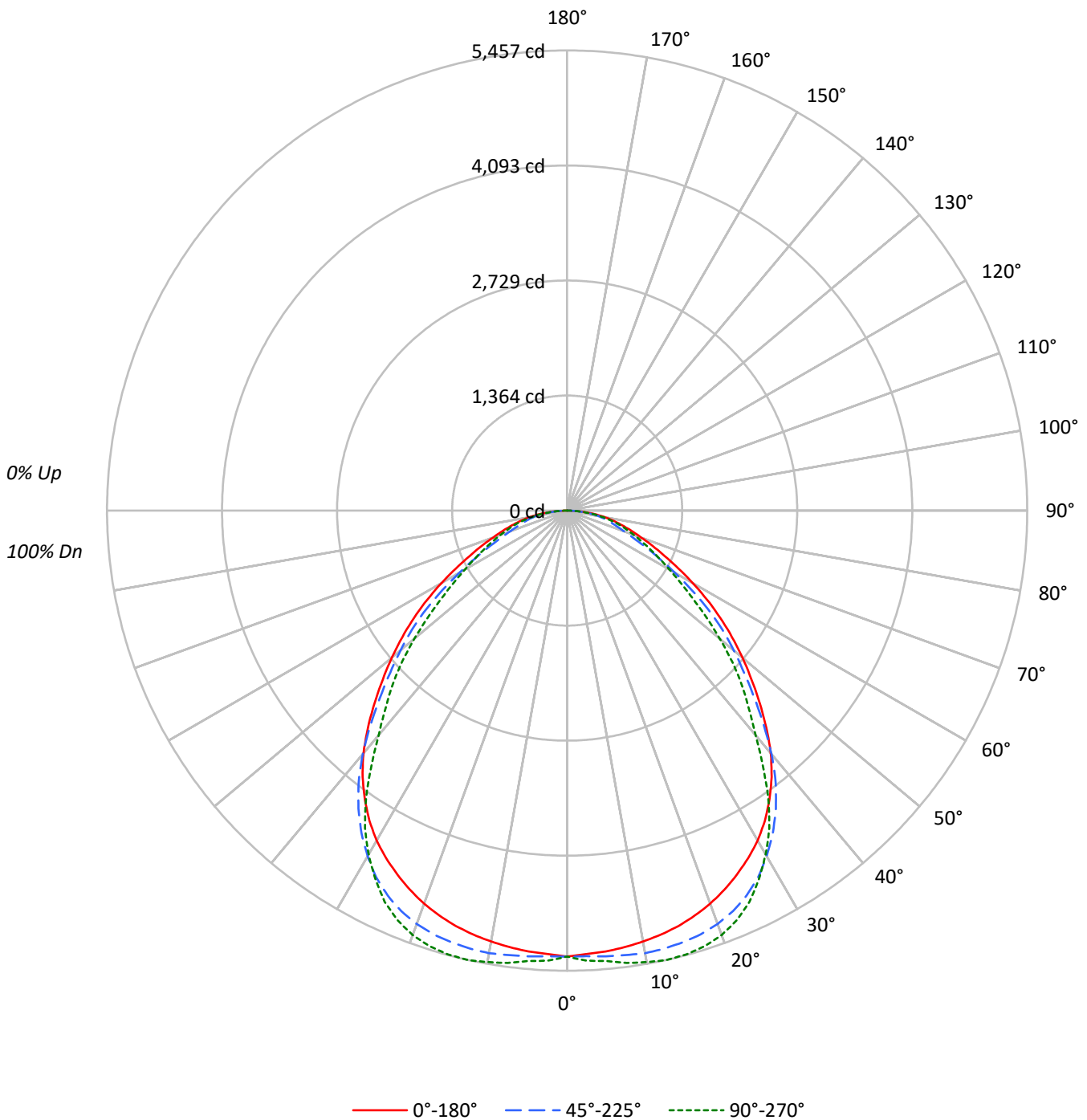
Lumens per Lamp: N/A
Luminaire Lumens: 13110.0 lumens
Efficiency: N/A
Efficacy: 142.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86				86
2	101	93	87	82	98	91	85	81	88	83	79	85	81	77	82	78	75	73				73
3	92	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65	63				63
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55				55
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50	48				48
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	54	49	44	42				42
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38				38
8	63	50	42	37	62	50	42	37	48	41	36	47	41	36	46	40	36	34				34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31				31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28				28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7116	7116	7116
5°	7088	7167	7240
10°	7090	7282	7429
15°	7104	7383	7591
20°	7102	7468	7669
25°	7071	7478	7599
30°	7019	7353	7314
35°	6870	7087	6829
40°	6601	6620	6105
45°	6145	5969	5581
50°	5680	5397	4946
55°	5199	4783	4267
60°	4636	3970	3769
65°	4066	3267	3463
70°	3671	2814	3297
75°	3509	2759	3288
80°	3537	2920	3208
85°	3134	2675	2800



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	508.0	3.9
10°-20°	1497.1	11.4
20°-30°	2296.3	17.5
30°-40°	2641.1	20.1
40°-50°	2408.9	18.4
50°-60°	1805.5	13.8
60°-70°	1110.6	8.5
70°-80°	636.4	4.9
80°-90°	206.1	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
0°-30°	4301.4	32.8
0°-40°	6942.6	53.0
0°-60°	11156.9	85.1
0°-90°	13110.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13110.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5288	5288	5288	5288	5288	
5°	5248	5301	5307	5350	5361	499
15°	5100	5213	5301	5414	5450	1440
25°	4763	4900	5037	5114	5118	2195
35°	4183	4264	4315	4244	4158	2608
45°	3229	3299	3137	2975	2933	2492
55°	2216	2134	2039	1859	1819	1980
65°	1277	1142	1026	1058	1088	1284
75°	675	605	531	608	632	722
85°	203	192	173	183	181	226
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5288.5	5288.5	5288.5	5288.5	5288.5
2.5°	5263.5	5301.3	5289.1	5320.2	5343.1
5°	5248.0	5301.3	5306.7	5350.5	5360.6
7.5°	5221.7	5291.2	5315.4	5393.0	5410.5
10°	5189.3	5273.0	5330.3	5413.9	5437.5
12.5°	5150.2	5247.3	5320.2	5423.3	5457.0
15°	5099.7	5212.9	5300.6	5413.9	5449.6
17.5°	5035.6	5167.1	5269.6	5380.8	5417.9
20°	4960.1	5099.0	5215.6	5329.6	5355.9
22.5°	4869.1	5008.6	5141.5	5244.0	5258.1
25°	4763.2	4900.1	5037.0	5114.5	5118.5
27.5°	4647.9	4775.3	4903.4	4945.3	4927.0
30°	4517.8	4631.7	4732.9	4741.6	4707.9
32.5°	4363.3	4465.8	4538.0	4519.1	4462.5
35°	4182.6	4264.2	4314.8	4244.0	4157.7
37.5°	3984.4	4045.7	4062.6	3908.9	3810.4
40°	3758.5	3811.1	3769.3	3555.5	3476.0
42.5°	3498.2	3558.9	3451.7	3240.6	3192.1
45°	3229.2	3299.3	3136.8	2975.0	2933.2
47.5°	2965.5	3029.6	2845.5	2715.4	2653.3
50°	2713.3	2741.0	2578.5	2431.5	2362.7
52.5°	2465.2	2437.6	2322.3	2139.5	2078.8
55°	2216.4	2134.1	2039.1	1859.0	1819.2
57.5°	1966.9	1852.3	1748.4	1610.2	1594.7
60°	1722.8	1581.9	1475.3	1393.1	1400.5
62.5°	1490.2	1346.6	1232.6	1206.3	1234.6
65°	1277.1	1142.2	1026.3	1058.0	1087.6
67.5°	1099.8	970.3	852.3	933.2	956.8
70°	933.2	828.7	715.4	819.9	838.1
72.5°	800.4	711.4	612.9	714.7	730.3
75°	675.0	604.8	530.7	607.5	632.5
77.5°	565.7	507.7	457.2	502.3	529.3
80°	456.5	407.3	376.9	397.2	414.0
82.5°	334.4	302.8	280.5	289.3	292.0
85°	203.0	191.5	173.3	182.7	181.4
87.5°	66.8	76.2	80.2	72.1	68.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)