

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-LD5-12SE-W-FLI-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 (P26703)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12SE-W-FLI-UNV-L835-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

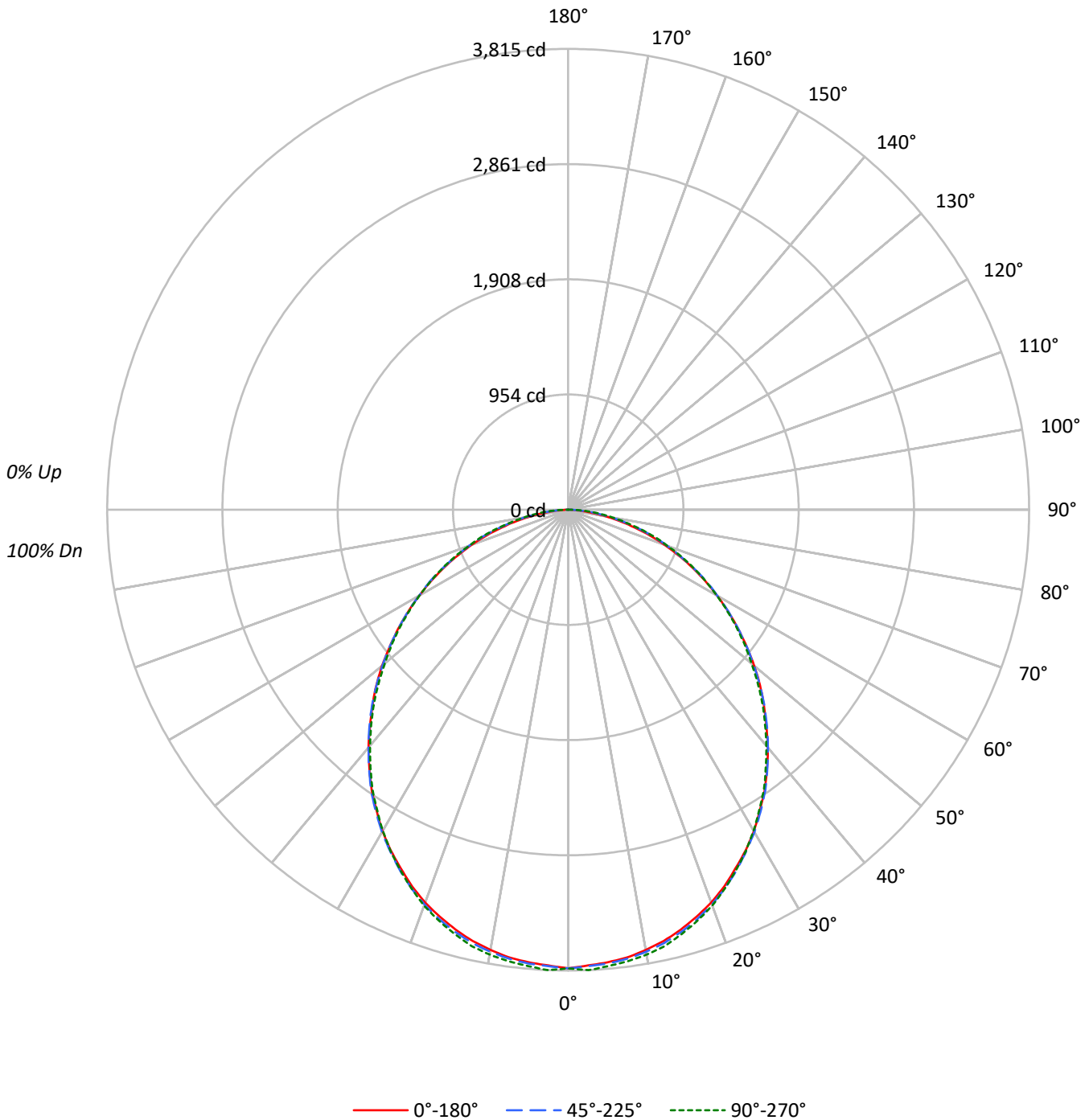
Lumens per Lamp: N/A
Luminaire Lumens: 9918.0 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 76.6
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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5109	5109	5109
5°	5080	5094	5123
10°	5056	5077	5110
15°	5012	5039	5064
20°	4955	4979	4994
25°	4864	4891	4884
30°	4774	4787	4767
35°	4656	4668	4638
40°	4516	4516	4481
45°	4358	4370	4325
50°	4208	4201	4149
55°	4026	4027	3990
60°	3831	3835	3821
65°	3611	3647	3656
70°	3335	3426	3430
75°	2947	3138	3187
80°	2417	2748	2903
85°	1678	2308	2609



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.1	3.6
10°-20°	1021.5	10.3
20°-30°	1518.1	15.3
30°-40°	1775.0	17.9
40°-50°	1769.7	17.8
50°-60°	1535.5	15.5
60°-70°	1134.1	11.4
70°-80°	635.0	6.4
80°-90°	169.4	1.7
90°-100°	0.5	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°	2898.7	29.2
0°-40°	4673.7	47.1
0°-60°	7979.0	80.4
0°-90°	9917.5	100.0
90°-120°	0.5	0.0
90°-150°	0.5	0.0
90°-180°	1.0	0.0
0°-180°	9918.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3797	3797	3797	3797	3797	
5°	3761	3785	3772	3788	3793	357
15°	3598	3623	3618	3635	3635	1015
25°	3276	3302	3295	3302	3290	1510
35°	2834	2859	2842	2841	2824	1771
45°	2290	2315	2296	2287	2273	1768
55°	1716	1728	1716	1714	1701	1535
65°	1134	1145	1146	1151	1148	1122
75°	567	584	604	608	613	604
85°	109	131	150	163	169	132
90°	0	2	3	6	6	4
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3796.9	3796.9	3796.9	3796.9	3796.9
2.5°	3776.1	3798.6	3782.9	3797.9	3815.2
5°	3760.9	3784.6	3771.5	3788.2	3793.0
7.5°	3738.7	3761.6	3749.1	3765.7	3770.8
10°	3701.0	3725.9	3716.0	3734.8	3740.1
12.5°	3657.1	3680.5	3674.0	3696.0	3699.6
15°	3598.2	3623.3	3617.7	3635.1	3635.4
17.5°	3533.0	3556.6	3552.5	3566.1	3565.6
20°	3460.8	3486.1	3477.4	3492.2	3487.6
22.5°	3375.3	3402.4	3391.5	3403.8	3392.2
25°	3276.1	3302.4	3294.7	3301.9	3289.8
27.5°	3180.0	3204.1	3188.2	3196.9	3184.1
30°	3072.8	3093.3	3081.0	3083.9	3068.4
32.5°	2952.3	2976.7	2961.7	2961.2	2944.8
35°	2834.4	2859.3	2841.7	2841.2	2823.6
37.5°	2704.1	2727.2	2706.5	2707.7	2687.2
40°	2571.0	2591.1	2571.0	2570.1	2551.2
42.5°	2426.6	2453.2	2434.8	2437.0	2411.9
45°	2290.2	2314.6	2296.5	2287.1	2273.1
47.5°	2154.3	2164.9	2149.9	2147.5	2127.7
50°	2010.4	2018.3	2007.0	2004.1	1981.9
52.5°	1861.6	1875.4	1860.9	1857.0	1842.3
55°	1716.3	1728.1	1716.5	1713.6	1701.1
57.5°	1569.9	1585.4	1573.6	1570.7	1560.5
60°	1423.6	1428.2	1425.3	1429.7	1419.8
62.5°	1278.3	1288.9	1292.3	1291.1	1283.3
65°	1134.1	1145.2	1145.5	1151.3	1148.4
67.5°	986.6	1001.1	1005.2	1011.2	1013.9
70°	847.8	858.9	870.9	874.6	871.9
72.5°	707.9	725.8	739.3	742.5	753.8
75°	566.9	583.8	603.6	608.0	613.1
77.5°	436.1	458.5	476.4	482.2	488.5
80°	312.0	336.8	354.7	362.7	374.7
82.5°	204.8	230.1	248.2	256.2	270.9
85°	108.7	131.4	149.5	162.7	169.0
87.5°	32.1	51.4	61.8	65.7	71.2
90°	0.0	2.4	2.9	6.5	6.0
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)