

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-LD5-15SE-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-LD5-15SE-W-FLI-UNV-L835-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

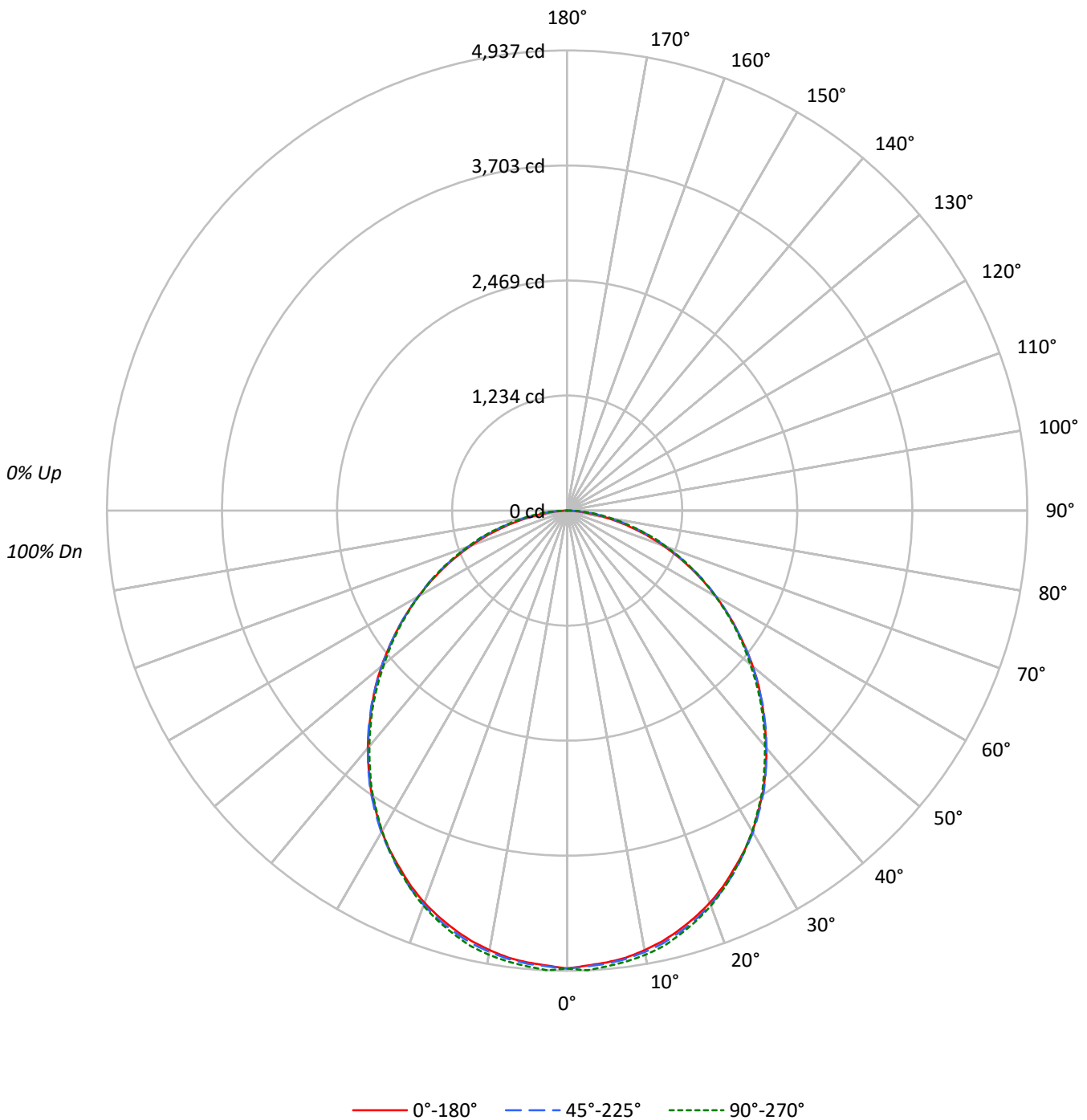
Lumens per Lamp: N/A
Luminaire Lumens: 12833.0 lumens
Efficiency: N/A
Efficacy: 134.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 95.2
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°	6610	6610	6610
5°	6573	6591	6629
10°	6543	6569	6612
15°	6485	6520	6552
20°	6412	6443	6461
25°	6293	6329	6319
30°	6177	6194	6168
35°	6024	6039	6001
40°	5843	5843	5798
45°	5639	5654	5596
50°	5445	5436	5368
55°	5209	5210	5163
60°	4957	4963	4943
65°	4672	4719	4731
70°	4315	4433	4438
75°	3814	4061	4124
80°	3127	3556	3757
85°	2171	2986	3376



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	464.6	3.6
10°-20°	1321.8	10.3
20°-30°	1964.2	15.3
30°-40°	2296.7	17.9
40°-50°	2289.9	17.8
50°-60°	1986.8	15.5
60°-70°	1467.5	11.4
70°-80°	821.6	6.4
80°-90°	219.2	1.7
90°-100°	0.7	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°	3750.6	29.2
0°-40°	6047.4	47.1
0°-60°	10324.0	80.4
0°-90°	12832.3	100.0
90°-120°	0.7	0.0
90°-150°	0.7	0.0
90°-180°	1.0	0.0
0°-180°	12833.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4913	4913	4913	4913	4913	
5°	4866	4897	4880	4902	4908	462
15°	4656	4688	4681	4704	4704	1313
25°	4239	4273	4263	4272	4257	1954
35°	3668	3700	3677	3676	3654	2291
45°	2963	2995	2971	2959	2941	2288
55°	2221	2236	2221	2217	2201	1986
65°	1467	1482	1482	1490	1486	1451
75°	734	755	781	787	793	781
85°	141	170	193	211	219	171
90°	0	3	4	8	8	6
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°	4912.8	4912.8	4912.8	4912.8	4912.8
2.5°	4886.0	4915.0	4894.7	4914.1	4936.6
5°	4866.3	4896.9	4880.0	4901.6	4907.8
7.5°	4837.5	4867.2	4851.0	4872.5	4879.1
10°	4788.8	4821.0	4808.2	4832.5	4839.4
12.5°	4731.9	4762.2	4753.8	4782.2	4786.9
15°	4655.7	4688.2	4681.0	4703.5	4703.8
17.5°	4571.4	4602.0	4596.7	4614.2	4613.5
20°	4477.9	4510.7	4499.5	4518.6	4512.6
22.5°	4367.3	4402.3	4388.3	4404.2	4389.2
25°	4238.9	4273.0	4263.0	4272.4	4256.7
27.5°	4114.6	4145.8	4125.2	4136.5	4119.9
30°	3975.9	4002.4	3986.5	3990.3	3970.3
32.5°	3820.0	3851.5	3832.2	3831.5	3810.3
35°	3667.5	3699.7	3676.9	3676.3	3653.5
37.5°	3498.8	3528.8	3501.9	3503.5	3476.9
40°	3326.7	3352.6	3326.7	3325.4	3301.1
42.5°	3139.8	3174.2	3150.5	3153.3	3120.8
45°	2963.3	2994.9	2971.4	2959.3	2941.1
47.5°	2787.4	2801.2	2781.8	2778.7	2753.1
50°	2601.2	2611.5	2596.9	2593.1	2564.4
52.5°	2408.8	2426.6	2407.8	2402.8	2383.8
55°	2220.7	2236.0	2221.0	2217.3	2201.0
57.5°	2031.4	2051.4	2036.1	2032.3	2019.2
60°	1842.0	1848.0	1844.2	1849.9	1837.0
62.5°	1654.0	1667.7	1672.1	1670.5	1660.5
65°	1467.4	1481.8	1482.1	1489.6	1485.9
67.5°	1276.6	1295.3	1300.6	1308.4	1311.9
70°	1096.9	1111.3	1126.9	1131.6	1128.2
72.5°	916.0	939.1	956.6	960.7	975.4
75°	733.6	755.4	781.1	786.7	793.2
77.5°	564.2	593.3	616.4	623.9	632.0
80°	403.6	435.8	458.9	469.3	484.9
82.5°	264.9	297.7	321.2	331.5	350.5
85°	140.6	170.0	193.4	210.6	218.7
87.5°	41.6	66.5	80.0	85.0	92.2
90°	0.0	3.1	3.7	8.4	7.8
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)