

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

Luminaire Equipment: Sample No. Condition Description

Summary

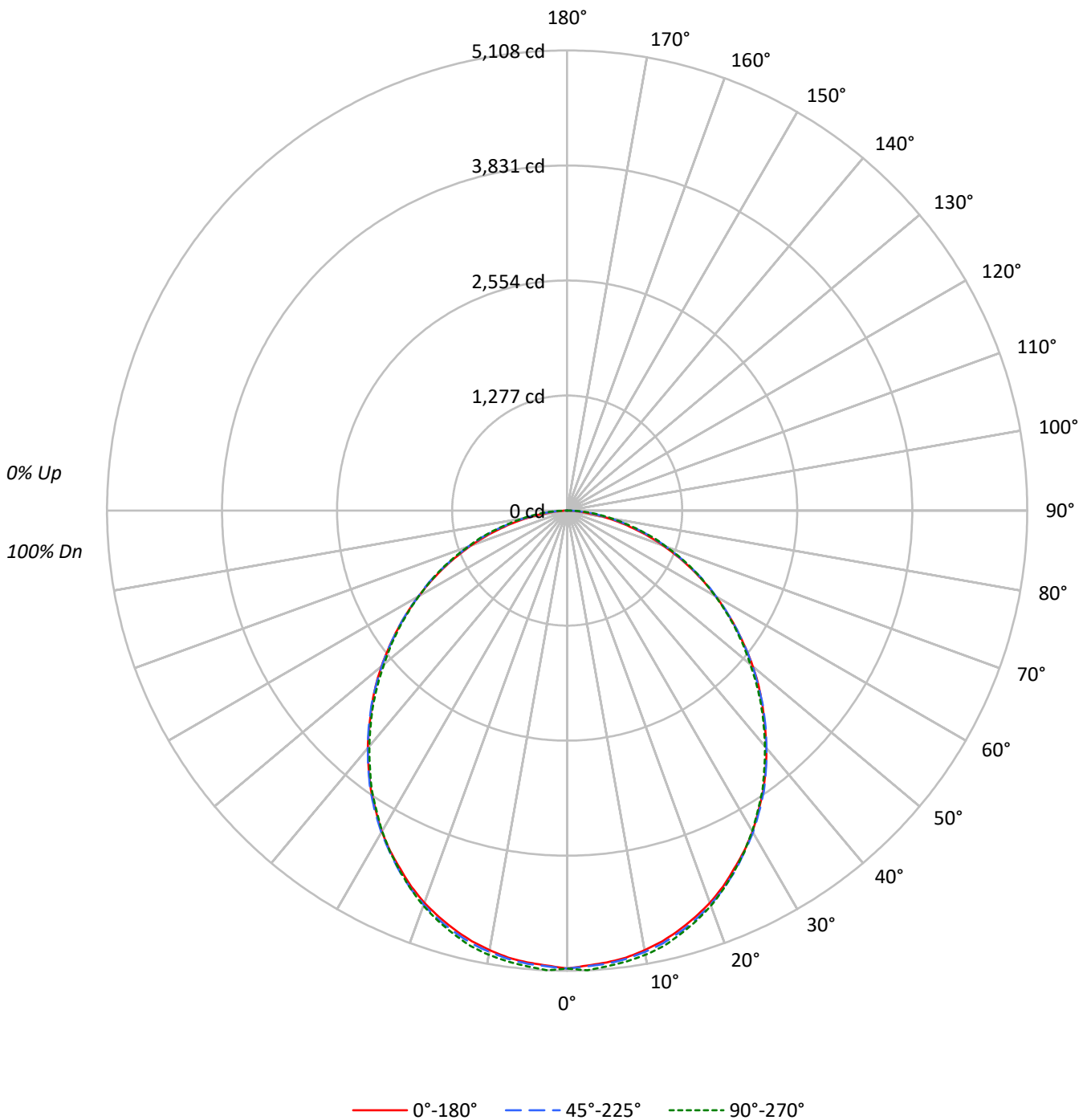
Lumens per Lamp: N/A
Luminaire Lumens: 13278.0 lumens
Efficiency: N/A
Efficacy: 139.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	6839	6839	6839
5°	6800	6820	6858
10°	6770	6797	6841
15°	6710	6746	6779
20°	6634	6666	6685
25°	6511	6548	6539
30°	6391	6408	6382
35°	6233	6249	6209
40°	6046	6046	5999
45°	5834	5850	5790
50°	5634	5624	5554
55°	5390	5391	5342
60°	5129	5135	5115
65°	4834	4882	4895
70°	4465	4587	4592
75°	3946	4201	4266
80°	3236	3680	3887
85°	2246	3089	3494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	480.7	3.6
10°-20°	1367.6	10.3
20°-30°	2032.4	15.3
30°-40°	2376.4	17.9
40°-50°	2369.3	17.8
50°-60°	2055.7	15.5
60°-70°	1518.3	11.4
70°-80°	850.1	6.4
80°-90°	226.8	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°	3880.7	29.2
0°-40°	6257.1	47.1
0°-60°	10682.0	80.4
0°-90°	13277.3	100.0
90°-120°	0.7	0.0
90°-150°	0.7	0.0
90°-180°	1.0	0.0
0°-180°	13278.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5083	5083	5083	5083	5083	
5°	5035	5067	5049	5072	5078	478
15°	4817	4851	4843	4867	4867	1359
25°	4386	4421	4411	4420	4404	2022
35°	3795	3828	3804	3804	3780	2370
45°	3066	3099	3074	3062	3043	2367
55°	2298	2314	2298	2294	2277	2055
65°	1518	1533	1534	1541	1537	1502
75°	759	782	808	814	821	808
85°	146	176	200	218	226	177
90°	0	3	4	9	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°	5083.2	5083.2	5083.2	5083.2	5083.2
2.5°	5055.4	5085.5	5064.4	5084.5	5107.8
5°	5035.0	5066.7	5049.3	5071.6	5078.0
7.5°	5005.3	5036.0	5019.2	5041.5	5048.3
10°	4954.9	4988.2	4974.9	5000.1	5007.2
12.5°	4896.0	4927.4	4918.7	4948.1	4952.9
15°	4817.2	4850.8	4843.3	4866.6	4866.9
17.5°	4729.9	4761.6	4756.1	4774.2	4773.5
20°	4633.2	4667.2	4655.5	4675.2	4669.1
22.5°	4518.8	4555.0	4540.4	4556.9	4541.4
25°	4385.9	4421.2	4410.8	4420.5	4404.4
27.5°	4257.3	4289.6	4268.3	4279.9	4262.8
30°	4113.8	4141.2	4124.7	4128.6	4107.9
32.5°	3952.4	3985.1	3965.1	3964.4	3942.4
35°	3794.7	3828.0	3804.4	3803.7	3780.2
37.5°	3620.1	3651.2	3623.4	3625.0	3597.5
40°	3442.0	3468.9	3442.0	3440.7	3415.5
42.5°	3248.7	3284.3	3259.7	3262.6	3229.0
45°	3066.1	3098.7	3074.5	3061.9	3043.1
47.5°	2884.1	2898.3	2878.3	2875.0	2848.5
50°	2691.4	2702.1	2686.9	2683.0	2653.3
52.5°	2492.3	2510.7	2491.3	2486.2	2466.4
55°	2297.7	2313.5	2298.0	2294.1	2277.3
57.5°	2101.8	2122.5	2106.7	2102.8	2089.2
60°	1905.9	1912.1	1908.2	1914.0	1900.7
62.5°	1711.3	1725.5	1730.1	1728.4	1718.1
65°	1518.3	1533.2	1533.5	1541.3	1537.4
67.5°	1320.8	1340.2	1345.7	1353.8	1357.4
70°	1135.0	1149.8	1166.0	1170.8	1167.3
72.5°	947.8	971.7	989.8	994.0	1009.2
75°	759.0	781.6	808.1	814.0	820.7
77.5°	583.8	613.9	637.8	645.5	653.9
80°	417.6	450.9	474.9	485.5	501.7
82.5°	274.1	308.1	332.3	343.0	362.7
85°	145.5	175.9	200.1	217.9	226.3
87.5°	43.0	68.9	82.8	87.9	95.4
90°	0.0	3.2	3.9	8.7	8.1
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)