

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-L750-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-L750-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

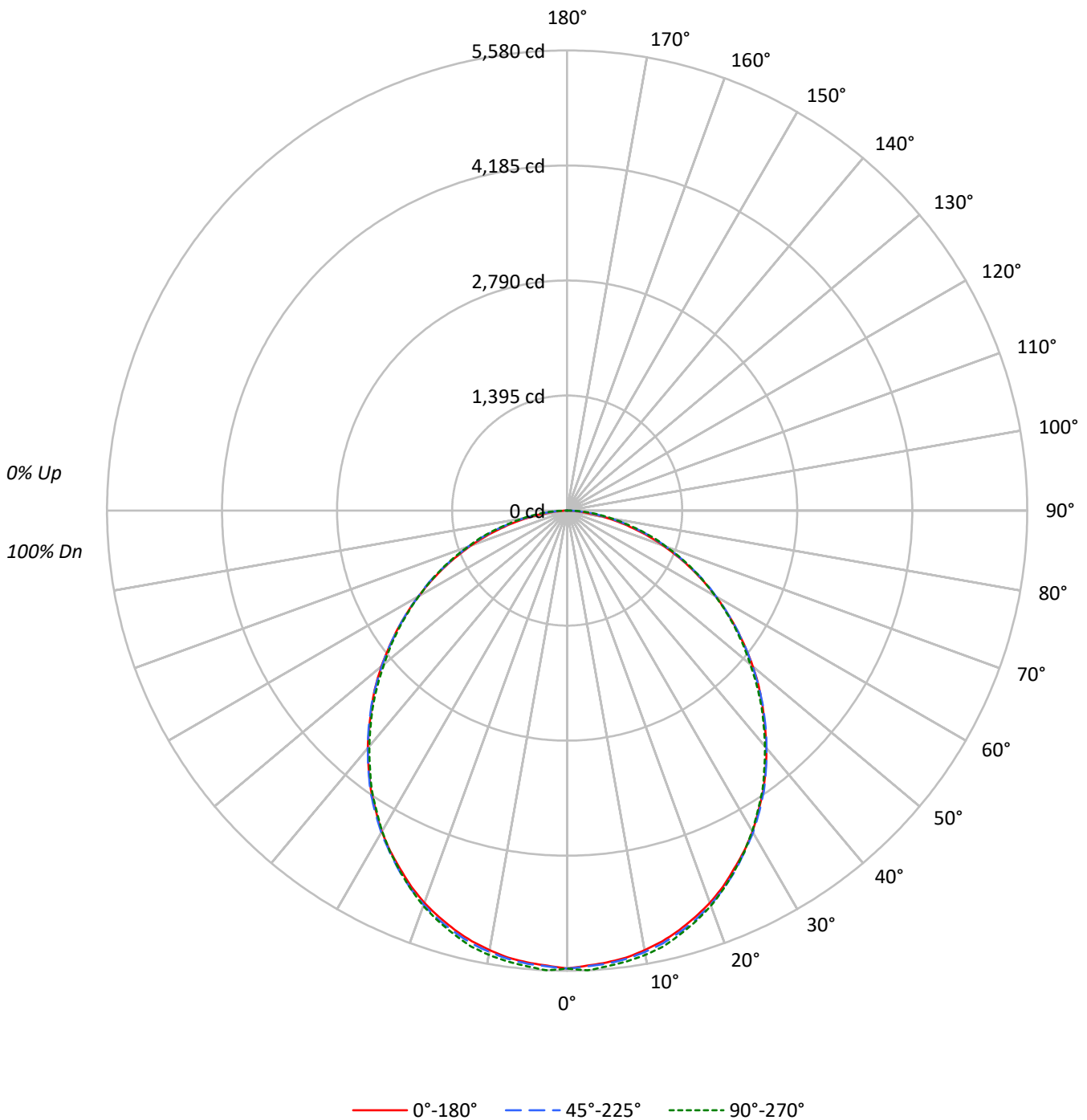
Lumens per Lamp: N/A
Luminaire Lumens: 14506.0 lumens
Efficiency: N/A
Efficacy: 152.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	7472	7472	7472
5°	7429	7450	7493
10°	7396	7426	7474
15°	7331	7371	7406
20°	7248	7282	7304
25°	7114	7154	7143
30°	6982	7001	6972
35°	6809	6827	6783
40°	6605	6605	6554
45°	6374	6391	6326
50°	6155	6144	6068
55°	5888	5889	5836
60°	5603	5610	5588
65°	5281	5334	5347
70°	4878	5011	5017
75°	4311	4590	4662
80°	3536	4020	4247
85°	2453	3375	3816



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	525.2	3.6
10°-20°	1494.1	10.3
20°-30°	2220.3	15.3
30°-40°	2596.1	17.9
40°-50°	2588.4	17.8
50°-60°	2245.8	15.5
60°-70°	1658.8	11.4
70°-80°	928.7	6.4
80°-90°	247.8	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°	4239.6	29.2
0°-40°	6835.7	47.1
0°-60°	11670.0	80.4
0°-90°	14505.3	100.0
90°-120°	0.7	0.0
90°-150°	0.7	0.0
90°-180°	1.0	0.0
0°-180°	14506.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5553	5553	5553	5553	5553	
5°	5501	5535	5516	5541	5548	523
15°	5263	5299	5291	5317	5317	1484
25°	4792	4830	4819	4829	4812	2209
35°	4146	4182	4156	4156	4130	2590
45°	3350	3385	3359	3345	3325	2586
55°	2510	2528	2511	2506	2488	2245
65°	1659	1675	1675	1684	1680	1641
75°	829	854	883	889	897	883
85°	159	192	219	238	247	193
90°	0	4	4	10	9	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



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-15SE-W-FLI-UNV-L750-ED1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5553.3	5553.3	5553.3	5553.3	5553.3
2.5°	5522.9	5555.8	5532.8	5554.7	5580.1
5°	5500.7	5535.3	5516.2	5540.6	5547.7
7.5°	5468.2	5501.7	5483.4	5507.8	5515.2
10°	5413.1	5449.5	5435.0	5462.5	5470.3
12.5°	5348.8	5383.1	5373.6	5405.7	5411.0
15°	5262.7	5299.4	5291.3	5316.7	5317.0
17.5°	5167.3	5201.9	5195.9	5215.7	5215.0
20°	5061.7	5098.8	5086.1	5107.6	5100.9
22.5°	4936.7	4976.3	4960.4	4978.4	4961.4
25°	4791.6	4830.1	4818.8	4829.3	4811.7
27.5°	4651.0	4686.3	4663.0	4675.7	4657.0
30°	4494.2	4524.2	4506.2	4510.5	4487.8
32.5°	4318.0	4353.7	4331.8	4331.0	4307.0
35°	4145.6	4182.0	4156.2	4155.5	4129.8
37.5°	3954.9	3988.8	3958.5	3960.2	3930.2
40°	3760.4	3789.7	3760.4	3758.9	3731.4
42.5°	3549.2	3588.0	3561.2	3564.4	3527.6
45°	3349.6	3385.3	3358.8	3345.1	3324.6
47.5°	3150.8	3166.4	3144.5	3140.9	3112.0
50°	2940.3	2952.0	2935.4	2931.2	2898.7
52.5°	2722.8	2742.9	2721.7	2716.1	2694.5
55°	2510.2	2527.5	2510.6	2506.3	2488.0
57.5°	2296.2	2318.8	2301.5	2297.3	2282.4
60°	2082.2	2088.9	2084.7	2091.0	2076.5
62.5°	1869.6	1885.1	1890.1	1888.3	1877.0
65°	1658.8	1675.0	1675.4	1683.8	1679.6
67.5°	1443.0	1464.2	1470.2	1479.0	1482.9
70°	1239.9	1256.2	1273.8	1279.1	1275.2
72.5°	1035.4	1061.6	1081.3	1085.9	1102.5
75°	829.2	853.9	882.9	889.2	896.7
77.5°	637.8	670.6	696.8	705.2	714.4
80°	456.3	492.6	518.8	530.4	548.1
82.5°	299.5	336.6	363.0	374.7	396.2
85°	158.9	192.1	218.6	238.0	247.2
87.5°	47.0	75.2	90.4	96.1	104.2
90°	0.0	3.5	4.2	9.5	8.8
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)