

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-FLI-UNV-L740-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-LD5-15HE-W-FLI-UNV-L740-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

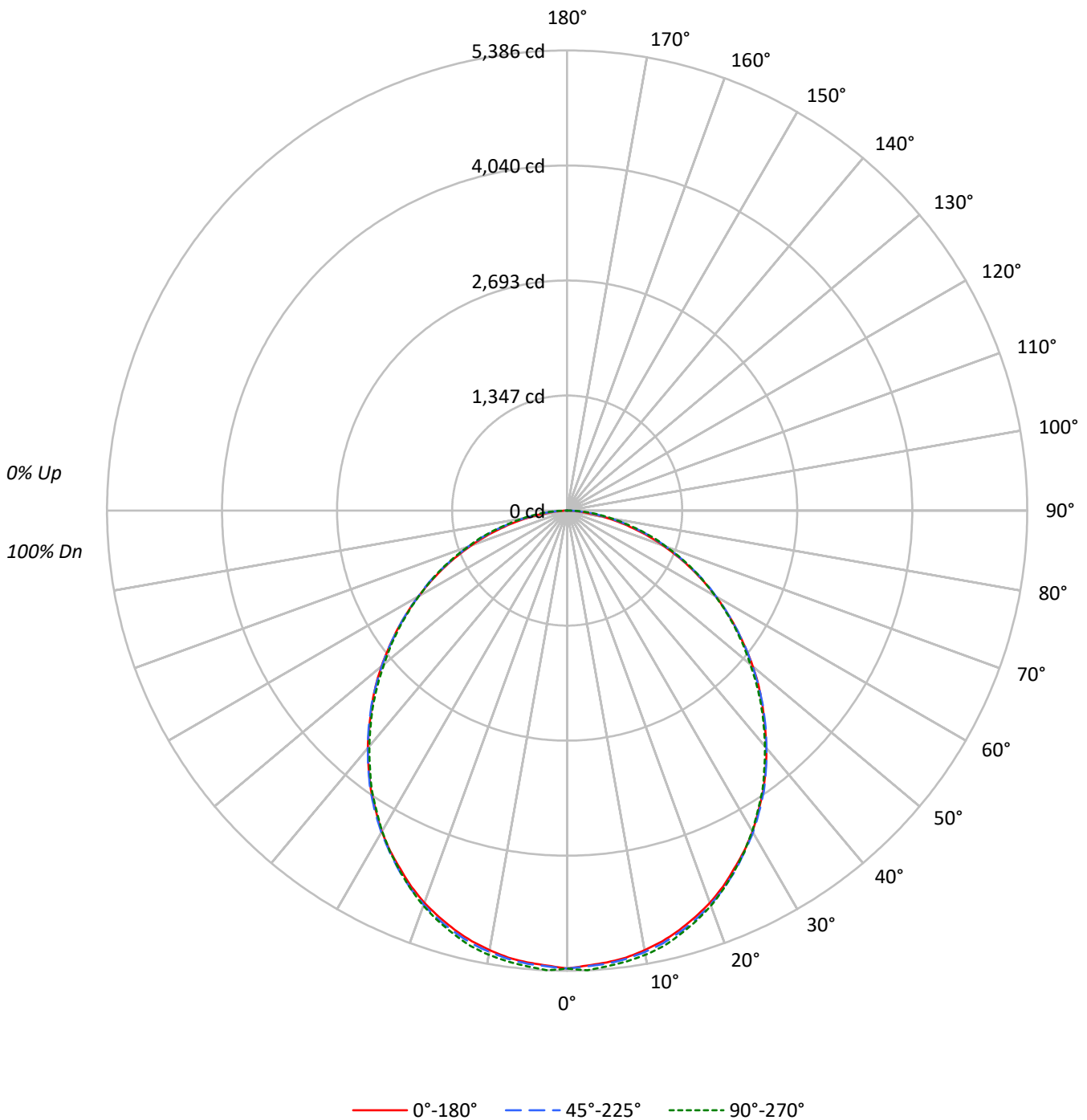
Lumens per Lamp: N/A
Luminaire Lumens: 14001.0 lumens
Efficiency: N/A
Efficacy: 152.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	7212	7212	7212
5°	7171	7191	7232
10°	7138	7167	7214
15°	7076	7114	7148
20°	6995	7029	7049
25°	6866	6905	6895
30°	6739	6757	6730
35°	6572	6589	6547
40°	6375	6375	6326
45°	6152	6169	6106
50°	5941	5930	5856
55°	5683	5684	5633
60°	5408	5415	5393
65°	5097	5148	5161
70°	4708	4837	4842
75°	4160	4430	4499
80°	3412	3880	4099
85°	2368	3257	3683



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	506.9	3.6
10°-20°	1442.1	10.3
20°-30°	2143.0	15.3
30°-40°	2505.8	17.9
40°-50°	2498.3	17.8
50°-60°	2167.6	15.5
60°-70°	1601.0	11.4
70°-80°	896.4	6.4
80°-90°	239.2	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°	4092.0	29.2
0°-40°	6597.8	47.1
0°-60°	11263.7	80.4
0°-90°	14000.3	100.0
90°-120°	0.7	0.0
90°-150°	0.7	0.0
90°-180°	1.0	0.0
0°-180°	14001.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5360	5360	5360	5360	5360	
5°	5309	5343	5324	5348	5354	504
15°	5080	5115	5107	5132	5132	1433
25°	4625	4662	4651	4661	4644	2132
35°	4001	4036	4012	4011	3986	2499
45°	3233	3268	3242	3229	3209	2496
55°	2423	2440	2423	2419	2401	2167
65°	1601	1617	1617	1625	1621	1583
75°	800	824	852	858	865	852
85°	153	185	211	230	239	186
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



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-15HE-W-FLI-UNV-L740-ED1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5360.0	5360.0	5360.0	5360.0	5360.0
2.5°	5330.7	5362.4	5340.2	5361.3	5385.9
5°	5309.2	5342.6	5324.2	5347.7	5354.5
7.5°	5277.8	5310.2	5292.5	5316.0	5323.2
10°	5224.7	5259.8	5245.8	5272.4	5279.9
12.5°	5162.6	5195.7	5186.5	5217.5	5222.6
15°	5079.5	5114.9	5107.1	5131.6	5131.9
17.5°	4987.4	5020.8	5015.0	5034.1	5033.4
20°	4885.5	4921.3	4909.0	4929.8	4923.3
22.5°	4764.8	4803.0	4787.7	4805.1	4788.7
25°	4624.7	4661.9	4651.0	4661.2	4644.2
27.5°	4489.1	4523.2	4500.7	4512.9	4494.9
30°	4337.7	4366.7	4349.3	4353.4	4331.6
32.5°	4167.7	4202.1	4181.0	4180.3	4157.1
35°	4001.3	4036.4	4011.5	4010.9	3986.0
37.5°	3817.3	3850.0	3820.7	3822.4	3793.4
40°	3629.4	3657.7	3629.4	3628.1	3601.5
42.5°	3425.6	3463.1	3437.2	3440.3	3404.8
45°	3233.0	3267.5	3241.9	3228.6	3208.8
47.5°	3041.1	3056.1	3035.0	3031.6	3003.6
50°	2838.0	2849.2	2833.2	2829.1	2797.8
52.5°	2628.0	2647.4	2627.0	2621.5	2600.7
55°	2422.8	2439.5	2423.2	2419.1	2401.3
57.5°	2216.3	2238.1	2221.4	2217.3	2203.0
60°	2009.7	2016.2	2012.1	2018.2	2004.2
62.5°	1804.5	1819.5	1824.3	1822.6	1811.7
65°	1601.0	1616.7	1617.0	1625.2	1621.1
67.5°	1392.7	1413.2	1419.0	1427.5	1431.3
70°	1196.7	1212.4	1229.5	1234.6	1230.8
72.5°	999.4	1024.6	1043.7	1048.1	1064.2
75°	800.3	824.2	852.1	858.3	865.4
77.5°	615.6	647.3	672.5	680.7	689.6
80°	440.4	475.5	500.7	512.0	529.0
82.5°	289.0	324.8	350.4	361.6	382.4
85°	153.4	185.4	211.0	229.7	238.6
87.5°	45.3	72.6	87.3	92.7	100.6
90°	0.0	3.4	4.1	9.2	8.5
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)