

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-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-LD5-15HE-W-FLI-UNV-L735-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

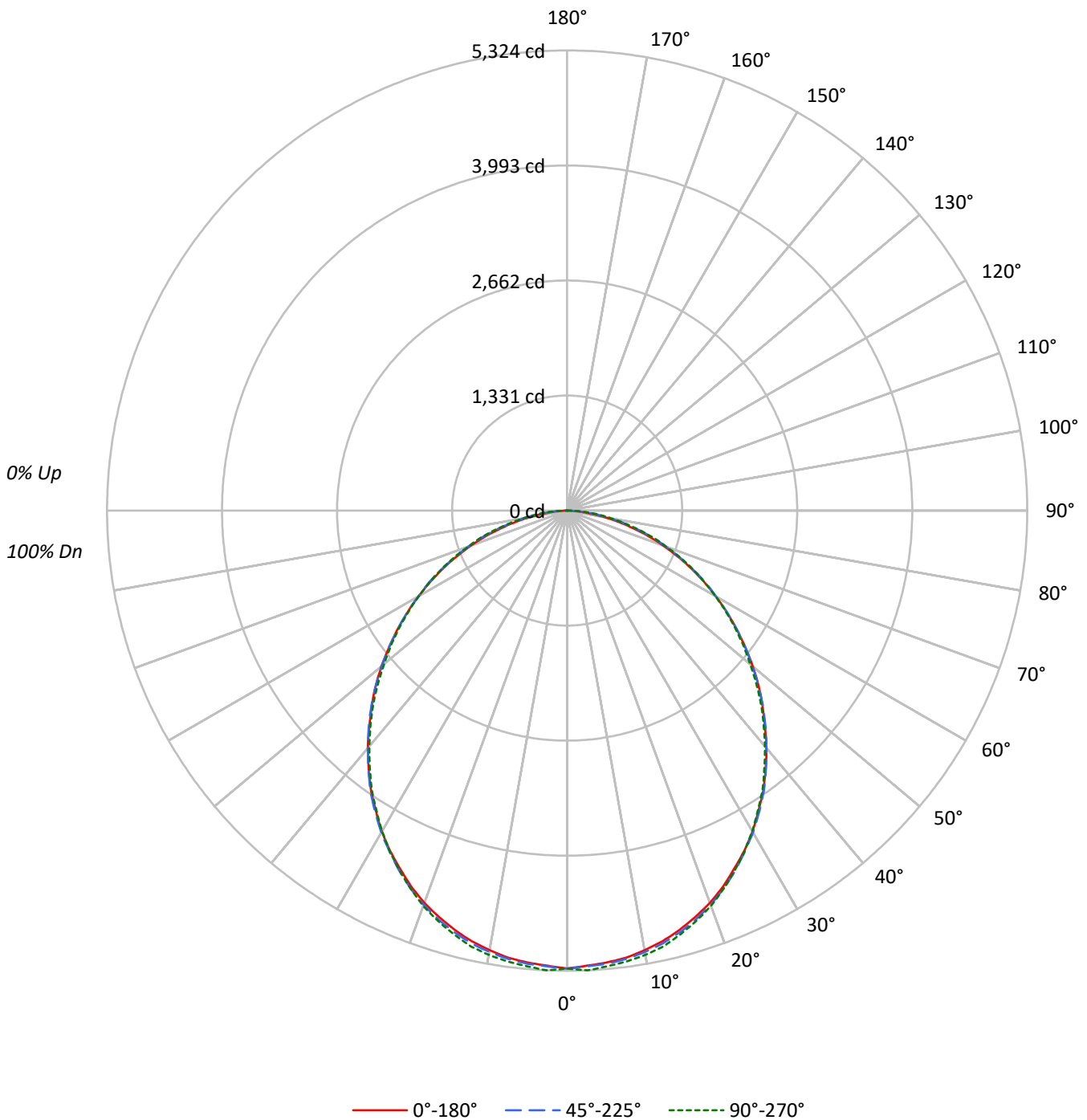
Lumens per Lamp: N/A
Luminaire Lumens: 13841.0 lumens
Efficiency: N/A
Efficacy: 150.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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



TEST NUMBER: P#
CATALOG NUMBER: HBLED-LD5-15HE-W-FLI-UNV-L735-ED1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-15HE-W-FLI-UNV-L735-ED1-U

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°	7129	7129	7129
5°	7089	7109	7149
10°	7057	7085	7131
15°	6995	7033	7067
20°	6915	6949	6969
25°	6787	6826	6816
30°	6662	6680	6653
35°	6497	6514	6472
40°	6302	6302	6253
45°	6082	6098	6036
50°	5873	5863	5789
55°	5618	5619	5569
60°	5346	5353	5332
65°	5039	5089	5102
70°	4654	4781	4787
75°	4113	4379	4447
80°	3374	3835	4052
85°	2340	3220	3642



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-15HE-W-FLI-UNV-L735-ED1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	501.1	3.6
10°-20°	1425.6	10.3
20°-30°	2118.5	15.3
30°-40°	2477.1	17.9
40°-50°	2469.7	17.8
50°-60°	2142.8	15.5
60°-70°	1582.7	11.4
70°-80°	886.2	6.4
80°-90°	236.5	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°	4045.3	29.2
0°-40°	6522.4	47.1
0°-60°	11135.0	80.4
0°-90°	13840.3	100.0
90°-120°	0.7	0.0
90°-150°	0.7	0.0
90°-180°	1.0	0.0
0°-180°	13841.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5299	5299	5299	5299	5299	
5°	5248	5282	5263	5287	5293	499
15°	5021	5056	5049	5073	5073	1416
25°	4572	4609	4598	4608	4591	2108
35°	3956	3990	3966	3965	3940	2471
45°	3196	3230	3205	3192	3172	2467
55°	2395	2412	2396	2391	2374	2142
65°	1583	1598	1598	1607	1603	1565
75°	791	815	842	848	856	843
85°	152	183	209	227	236	184
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-L735-ED1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5298.7	5298.7	5298.7	5298.7	5298.7
2.5°	5269.7	5301.1	5279.2	5300.1	5324.3
5°	5248.5	5281.5	5263.3	5286.6	5293.3
7.5°	5217.5	5249.5	5232.0	5255.3	5262.3
10°	5165.0	5199.7	5185.8	5212.1	5219.5
12.5°	5103.6	5136.3	5127.2	5157.9	5162.9
15°	5021.4	5056.5	5048.7	5073.0	5073.3
17.5°	4930.4	4963.4	4957.7	4976.6	4975.9
20°	4829.7	4865.1	4852.9	4873.5	4867.1
22.5°	4710.4	4748.1	4733.0	4750.2	4734.0
25°	4571.9	4608.6	4597.8	4608.0	4591.1
27.5°	4437.8	4471.5	4449.2	4461.4	4443.5
30°	4288.2	4316.8	4299.6	4303.7	4282.1
32.5°	4120.0	4154.1	4133.2	4132.5	4109.6
35°	3955.6	3990.3	3965.7	3965.0	3940.4
37.5°	3773.6	3806.0	3777.0	3778.7	3750.0
40°	3588.0	3615.9	3588.0	3586.6	3560.3
42.5°	3386.5	3423.5	3397.9	3401.0	3365.9
45°	3196.1	3230.1	3204.8	3191.7	3172.2
47.5°	3006.4	3021.2	3000.3	2996.9	2969.3
50°	2805.5	2816.7	2800.8	2796.8	2765.8
52.5°	2598.0	2617.2	2597.0	2591.6	2571.0
55°	2395.1	2411.6	2395.5	2391.4	2373.9
57.5°	2190.9	2212.5	2196.0	2191.9	2177.8
60°	1986.7	1993.1	1989.1	1995.2	1981.3
62.5°	1783.9	1798.7	1803.4	1801.7	1791.0
65°	1582.7	1598.2	1598.5	1606.6	1602.6
67.5°	1376.8	1397.0	1402.8	1411.2	1414.9
70°	1183.1	1198.6	1215.4	1220.5	1216.8
72.5°	988.0	1012.9	1031.8	1036.2	1052.0
75°	791.2	814.8	842.4	848.5	855.5
77.5°	608.6	639.9	664.8	672.9	681.7
80°	435.4	470.1	495.0	506.1	523.0
82.5°	285.7	321.1	346.4	357.5	378.1
85°	151.6	183.3	208.6	227.1	235.9
87.5°	44.8	71.8	86.3	91.7	99.4
90°	0.0	3.4	4.0	9.1	8.4
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



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-15HE-W-FLI-UNV-L735-ED1-U

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)