

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-AWG-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 (P23764)
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-AWG-UNV-L735-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

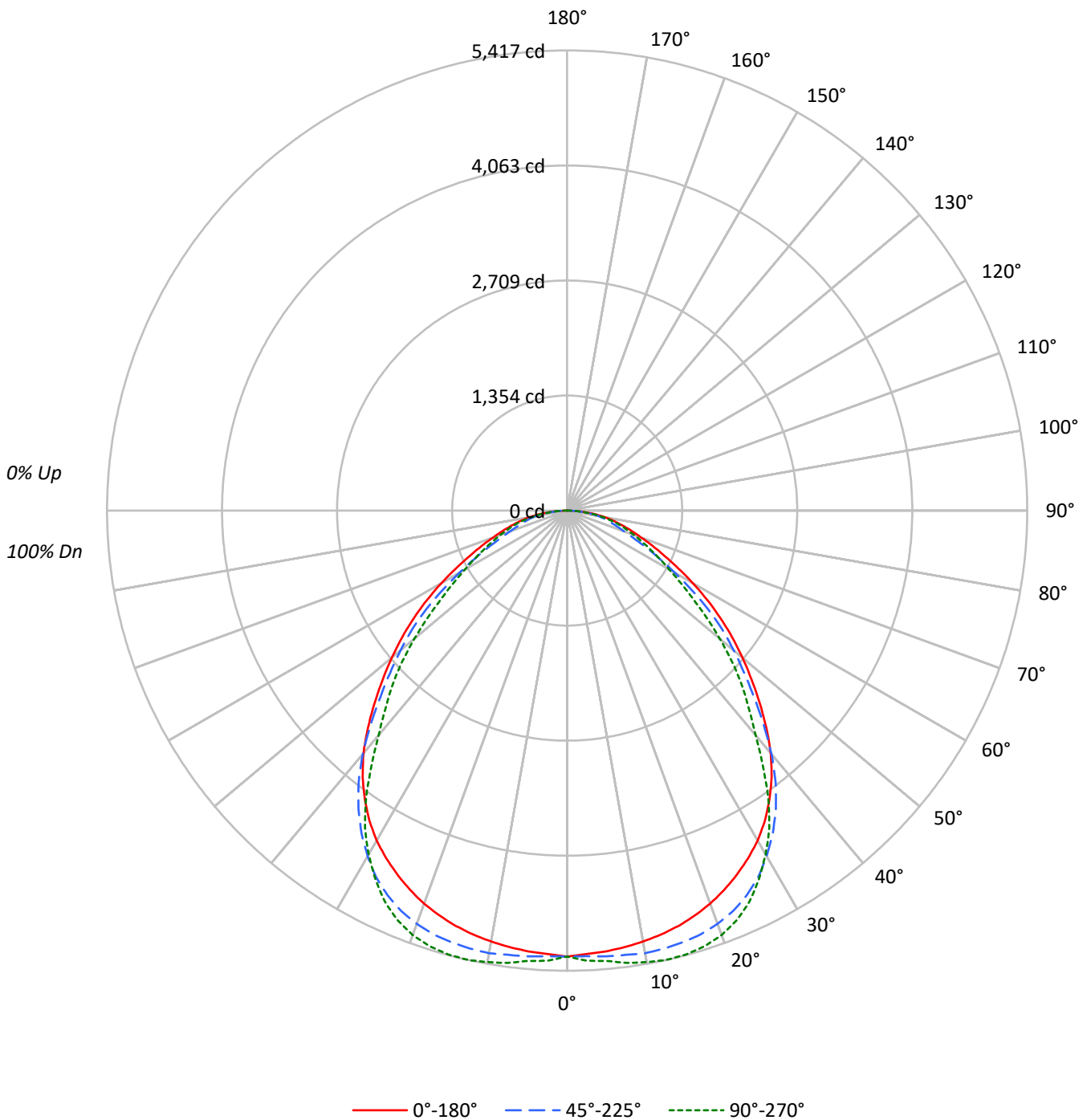
Lumens per Lamp: N/A
Luminaire Lumens: 13013.0 lumens
Efficiency: N/A
Efficacy: 136.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P#
CATALOG NUMBER: HBLED-LD5-15SE-W-AWG-UNV-L735-ED1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-15SE-W-AWG-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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	85	81	88	83	79	85	81	77	82	78	75	73
3	92	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65	63
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50	48
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	54	49	44	42
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38
8	63	50	42	37	62	50	42	37	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7063	7063	7063
5°	7036	7114	7187
10°	7037	7229	7374
15°	7051	7329	7535
20°	7050	7413	7612
25°	7019	7422	7543
30°	6967	7299	7260
35°	6819	7035	6779
40°	6553	6571	6060
45°	6099	5925	5540
50°	5638	5357	4909
55°	5161	4748	4236
60°	4602	3941	3741
65°	4036	3243	3437
70°	3644	2793	3273
75°	3483	2738	3264
80°	3511	2899	3185
85°	3111	2655	2779



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-15SE-W-AWG-UNV-L735-ED1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	504.3	3.9
10°-20°	1486.0	11.4
20°-30°	2279.3	17.5
30°-40°	2621.6	20.1
40°-50°	2391.1	18.4
50°-60°	1792.1	13.8
60°-70°	1102.4	8.5
70°-80°	631.7	4.9
80°-90°	204.5	1.6
90°-100°	0.0	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°	4269.6	32.8
0°-40°	6891.2	53.0
0°-60°	11074.4	85.1
0°-90°	13013.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13013.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5249	5249	5249	5249	5249	
5°	5209	5262	5267	5311	5321	495
15°	5062	5174	5261	5374	5409	1429
25°	4728	4864	5000	5077	5081	2179
35°	4152	4233	4283	4213	4127	2589
45°	3205	3275	3114	2953	2912	2474
55°	2200	2118	2024	1845	1806	1966
65°	1268	1134	1019	1050	1080	1275
75°	670	600	527	603	628	716
85°	202	190	172	181	180	225
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-15SE-W-AWG-UNV-L735-ED1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5249.3	5249.3	5249.3	5249.3	5249.3
2.5°	5224.6	5262.1	5250.0	5280.8	5303.6
5°	5209.2	5262.1	5267.4	5310.9	5321.0
7.5°	5183.1	5252.0	5276.1	5353.1	5370.5
10°	5150.9	5233.9	5290.8	5373.8	5397.3
12.5°	5112.1	5208.5	5280.8	5383.2	5416.7
15°	5061.9	5174.4	5261.4	5373.8	5409.3
17.5°	4998.3	5128.9	5230.6	5341.0	5377.8
20°	4923.4	5061.3	5177.1	5290.2	5316.3
22.5°	4833.0	4971.6	5103.4	5205.2	5219.2
25°	4728.0	4863.8	4999.7	5076.7	5080.7
27.5°	4613.5	4740.0	4867.2	4908.7	4890.6
30°	4484.3	4597.4	4697.8	4706.5	4673.1
32.5°	4331.1	4432.8	4504.4	4485.7	4429.4
35°	4151.7	4232.7	4282.9	4212.6	4126.9
37.5°	3954.9	4015.8	4032.5	3879.9	3782.2
40°	3730.7	3782.9	3741.4	3529.2	3450.3
42.5°	3472.3	3532.6	3426.2	3216.7	3168.5
45°	3205.3	3274.9	3113.6	2953.0	2911.5
47.5°	2943.6	3007.2	2824.5	2695.3	2633.7
50°	2693.3	2720.7	2559.4	2413.5	2345.2
52.5°	2447.0	2419.5	2305.1	2123.7	2063.5
55°	2200.0	2118.3	2024.0	1845.3	1805.8
57.5°	1952.4	1838.6	1735.5	1598.3	1582.9
60°	1710.1	1570.2	1464.4	1382.8	1390.1
62.5°	1479.2	1336.6	1223.5	1197.4	1225.5
65°	1267.7	1133.8	1018.7	1050.1	1079.6
67.5°	1091.6	963.1	846.0	926.3	949.7
70°	926.3	822.6	710.1	813.9	831.9
72.5°	794.5	706.1	608.4	709.5	724.9
75°	670.0	600.4	526.7	603.0	627.8
77.5°	561.5	504.0	453.8	498.6	525.4
80°	453.1	404.3	374.1	394.2	411.0
82.5°	332.0	300.5	278.4	287.1	289.8
85°	201.5	190.1	172.0	181.4	180.0
87.5°	66.3	75.6	79.6	71.6	67.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)