

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-A-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 (P23761)
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-A-UNV-L735-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

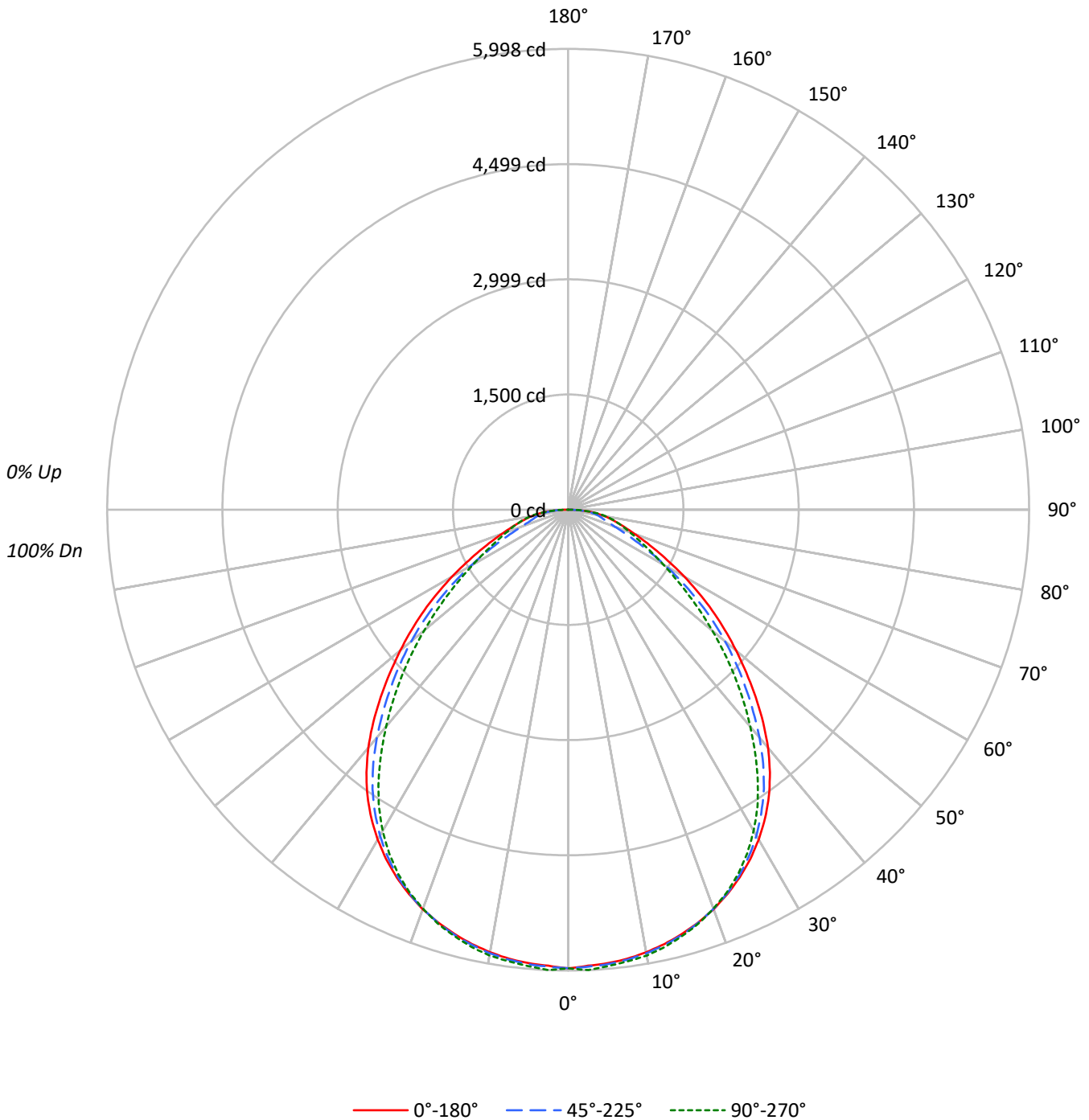
Lumens per Lamp: N/A
Luminaire Lumens: 13711.0 lumens
Efficiency: N/A
Efficacy: 149.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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-A-UNV-L735-ED1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-15HE-W-A-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	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	75	70	90	81	75	69	79	73	68	76	71	67	73	69	65	63
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	52	46	72	60	52	46	58	51	46	56	50	45	55	49	45	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8031	8031	8031
5°	8002	8020	8053
10°	7991	8009	8050
15°	7964	7980	7999
20°	7923	7917	7911
25°	7837	7810	7766
30°	7701	7608	7497
35°	7477	7289	7065
40°	7106	6800	6474
45°	6564	6198	5823
50°	5967	5581	5122
55°	5366	4832	4428
60°	4695	3949	3842
65°	4048	3105	3467
70°	3609	2534	3342
75°	3458	2474	3492
80°	3739	2926	3891
85°	4198	3523	4239



TEST NUMBER: P#

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	565.7	4.1
10°-20°	1618.9	11.8
20°-30°	2421.8	17.7
30°-40°	2763.0	20.2
40°-50°	2515.1	18.3
50°-60°	1846.8	13.5
60°-70°	1090.5	8.0
70°-80°	624.9	4.6
80°-90°	264.2	1.9
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°	4606.4	33.6
0°-40°	7369.4	53.7
0°-60°	11731.4	85.6
0°-90°	13711.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13711.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5969	5969	5969	5969	5969	
5°	5925	5962	5938	5962	5963	563
15°	5718	5749	5729	5749	5742	1613
25°	5279	5298	5260	5258	5231	2430
35°	4552	4530	4438	4362	4301	2836
45°	3450	3430	3257	3111	3060	2659
55°	2287	2182	2060	1910	1888	2046
65°	1272	1110	975	1043	1089	1280
75°	665	570	476	621	672	717
85°	272	251	228	269	275	284
90°	0	0	0	0	0	



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5968.6	5968.6	5968.6	5968.6	5968.6
2.5°	5941.0	5975.4	5953.8	5977.4	5997.6
5°	5924.9	5961.9	5938.3	5961.9	5962.6
7.5°	5895.3	5929.6	5906.7	5932.3	5929.6
10°	5848.8	5883.1	5862.3	5889.9	5891.9
12.5°	5789.6	5822.6	5801.0	5832.7	5827.3
15°	5717.6	5749.2	5729.0	5749.2	5742.5
17.5°	5632.7	5661.7	5635.4	5657.6	5646.2
20°	5533.1	5557.3	5529.1	5549.9	5525.0
22.5°	5414.0	5435.5	5405.9	5417.3	5391.8
25°	5278.7	5297.5	5260.5	5258.5	5230.9
27.5°	5127.9	5138.0	5090.9	5074.7	5043.1
30°	4956.9	4959.6	4897.0	4866.7	4825.7
32.5°	4765.1	4758.3	4678.2	4633.1	4582.7
35°	4552.4	4530.2	4437.9	4361.9	4301.3
37.5°	4312.1	4277.1	4166.7	4054.3	3996.4
40°	4045.5	4004.4	3871.8	3732.5	3686.1
42.5°	3755.4	3720.4	3564.2	3418.8	3373.0
45°	3449.8	3429.6	3257.3	3111.2	3060.0
47.5°	3144.2	3129.4	2961.1	2812.3	2750.4
50°	2850.7	2818.4	2666.3	2503.4	2446.8
52.5°	2566.0	2500.0	2366.0	2199.1	2157.4
55°	2287.3	2181.6	2059.8	1910.3	1887.5
57.5°	2011.3	1874.7	1756.2	1644.5	1643.8
60°	1744.7	1588.6	1467.4	1408.9	1427.7
62.5°	1495.0	1334.8	1203.6	1207.6	1241.9
65°	1271.5	1110.0	975.4	1043.3	1089.1
67.5°	1079.7	925.6	788.9	915.5	959.2
70°	917.5	778.1	644.2	802.4	849.5
72.5°	780.8	663.7	543.2	708.1	755.9
75°	665.1	570.1	475.9	620.6	671.8
77.5°	570.8	486.7	426.8	537.2	590.3
80°	482.6	408.6	377.6	456.4	502.2
82.5°	382.3	331.2	313.0	370.9	394.5
85°	271.9	251.1	228.2	269.3	274.6
87.5°	149.4	154.8	127.9	154.8	155.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)