

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-CLI-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 (P23766)
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-CLI-UNV-L735-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

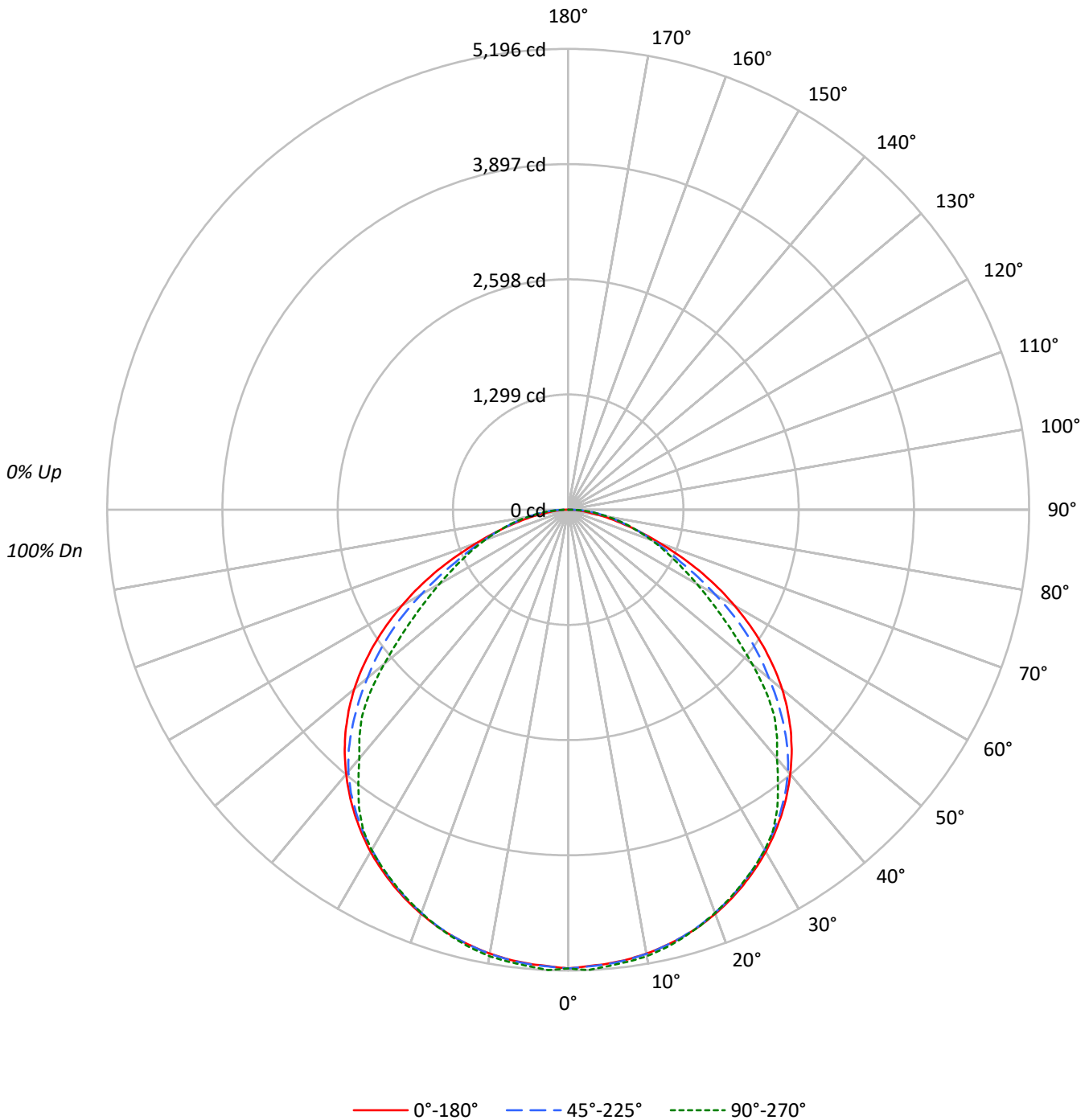
Lumens per Lamp: N/A
Luminaire Lumens: 13896.0 lumens
Efficiency: N/A
Efficacy: 146.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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-CLI-UNV-L735-ED1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-15SE-W-CLI-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	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6959	6959	6959
5°	6940	6945	6976
10°	6944	6948	6984
15°	6945	6944	6961
20°	6943	6927	6929
25°	6933	6907	6899
30°	6921	6880	6884
35°	6889	6846	6750
40°	6840	6770	6429
45°	6753	6537	6251
50°	6591	6189	5662
55°	6291	5788	5006
60°	5838	5165	4515
65°	5189	4472	4151
70°	4306	3996	3913
75°	3483	3657	3702
80°	2766	3498	3483
85°	2166	3758	3585



TEST NUMBER: P#

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	490.5	3.5
10°-20°	1410.9	10.2
20°-30°	2151.3	15.5
30°-40°	2602.8	18.7
40°-50°	2636.4	19.0
50°-60°	2179.1	15.7
60°-70°	1439.2	10.4
70°-80°	750.5	5.4
80°-90°	235.3	1.7
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°	4052.7	29.2
0°-40°	6655.5	47.9
0°-60°	11471.0	82.5
0°-90°	13896.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13896.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5172	5172	5172	5172	5172	
5°	5139	5170	5142	5165	5165	489
15°	4986	5011	4985	5001	4997	1408
25°	4670	4688	4652	4664	4647	2153
35°	4194	4200	4168	4163	4109	2623
45°	3549	3540	3436	3329	3285	2733
55°	2682	2642	2468	2228	2134	2390
65°	1630	1583	1404	1313	1304	1610
75°	670	682	704	713	712	730
85°	140	181	243	242	232	170
90°	0	0	0	0	0	



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5172.2	5172.2	5172.2	5172.2	5172.2
2.5°	5150.4	5180.9	5155.4	5177.8	5195.8
5°	5138.6	5169.7	5142.4	5164.7	5165.3
7.5°	5115.7	5146.7	5118.8	5141.1	5140.5
10°	5082.8	5111.9	5085.2	5111.9	5111.9
12.5°	5038.1	5066.6	5040.5	5065.4	5061.6
15°	4985.9	5011.4	4985.3	5000.8	4997.1
17.5°	4924.4	4947.4	4918.2	4931.3	4923.8
20°	4849.3	4870.4	4838.1	4854.9	4839.4
22.5°	4764.9	4784.7	4751.8	4764.2	4746.8
25°	4669.9	4688.5	4652.5	4664.3	4646.9
27.5°	4567.4	4584.2	4543.8	4558.1	4544.4
30°	4455.0	4463.1	4428.3	4446.9	4430.8
32.5°	4329.6	4334.6	4304.1	4320.9	4293.6
35°	4194.2	4199.8	4168.2	4162.6	4109.2
37.5°	4049.6	4052.1	4022.2	3972.0	3883.8
40°	3894.3	3893.1	3854.6	3738.5	3660.3
42.5°	3728.6	3727.9	3660.3	3528.0	3483.3
45°	3549.1	3539.8	3435.5	3328.7	3285.2
47.5°	3356.6	3346.7	3200.8	3115.7	3017.0
50°	3148.6	3131.2	2956.8	2840.7	2704.7
52.5°	2924.5	2897.8	2720.2	2532.7	2404.2
55°	2681.7	2642.0	2467.5	2227.8	2134.1
57.5°	2429.0	2370.0	2200.5	1967.0	1890.7
60°	2169.5	2103.6	1919.2	1727.4	1677.7
62.5°	1902.5	1837.3	1649.1	1504.5	1477.1
65°	1629.9	1582.7	1404.5	1313.2	1303.9
67.5°	1350.5	1333.7	1197.7	1151.2	1147.4
70°	1094.7	1091.6	1015.8	992.2	994.7
72.5°	874.9	871.1	860.0	848.2	848.8
75°	670.0	681.8	703.5	712.8	712.2
77.5°	499.8	524.0	570.0	588.6	585.5
80°	357.0	393.0	451.4	468.8	449.5
82.5°	237.8	275.7	344.6	347.1	331.6
85°	140.3	180.7	243.4	241.5	232.2
87.5°	69.5	108.7	145.9	139.7	133.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)