

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-CLWG-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 (P33385)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-15HE-W-CLWG-UNV-L740-ED1-U
Description: METALUX HIGH BAY LINEAR LED
WIDE DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14378.0 lumens
Efficiency: N/A
Efficacy: 156.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

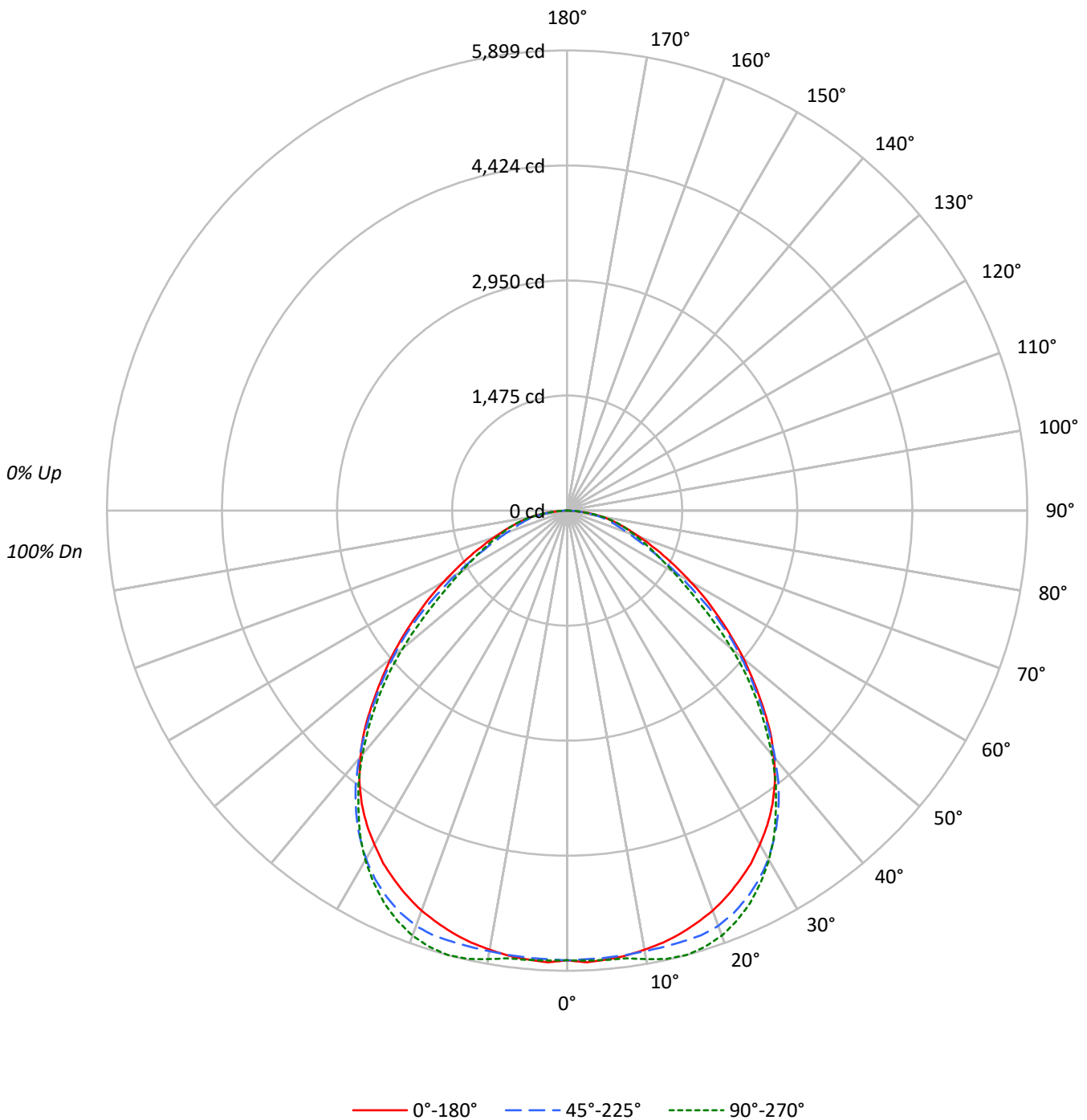
Input Watts (W): 91.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P#

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

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-15HE-W-CLWG-UNV-L740-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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65	63
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55
5	79	67	58	52	77	65	57	52	63	56	51	61	55	50	60	54	50	48
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44	42
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7757	7757	7757
5°	7803	7771	7809
10°	7810	7836	7976
15°	7819	7966	8217
20°	7814	8112	8302
25°	7766	8119	8239
30°	7677	8012	8037
35°	7540	7752	7660
40°	7243	7287	7172
45°	6748	6678	6542
50°	6179	6079	5768
55°	5550	5344	4876
60°	4922	4422	4209
65°	4337	3674	3820
70°	3878	3188	3639
75°	3633	3100	3680
80°	3537	3134	3503
85°	2824	2479	2570



TEST NUMBER: P#

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	549.2	3.8
10°-20°	1617.7	11.3
20°-30°	2488.6	17.3
30°-40°	2904.3	20.2
40°-50°	2698.9	18.8
50°-60°	2000.5	13.9
60°-70°	1223.0	8.5
70°-80°	696.6	4.8
80°-90°	199.2	1.4
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°	4655.5	32.4
0°-40°	7559.8	52.6
0°-60°	12259.2	85.3
0°-90°	14378.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14378.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5765	5765	5765	5765	5765	
5°	5777	5750	5753	5749	5782	550
15°	5614	5610	5719	5832	5899	1585
25°	5231	5272	5469	5515	5550	2410
35°	4590	4626	4720	4681	4663	2860
45°	3546	3567	3509	3454	3438	2733
55°	2366	2306	2278	2116	2079	2123
65°	1362	1237	1154	1185	1200	1363
75°	699	656	596	680	708	748
85°	183	178	161	166	166	211
90°	0	0	0	0	0	



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5765.2	5765.2	5765.2	5765.2	5765.2
2.5°	5796.4	5763.7	5757.7	5744.3	5774.1
5°	5777.1	5750.3	5753.3	5748.8	5781.5
7.5°	5754.8	5735.4	5747.3	5745.8	5789.0
10°	5716.1	5705.7	5735.4	5768.1	5838.0
12.5°	5673.0	5662.6	5728.0	5811.3	5887.1
15°	5613.5	5610.5	5719.1	5832.1	5899.0
17.5°	5539.1	5543.6	5708.7	5805.3	5864.8
20°	5457.4	5464.8	5665.5	5744.3	5797.9
22.5°	5351.8	5377.1	5582.3	5647.7	5689.3
25°	5231.3	5271.5	5469.2	5515.3	5549.5
27.5°	5102.0	5142.1	5329.5	5353.3	5372.6
30°	4941.4	4997.9	5157.0	5159.9	5173.3
32.5°	4777.8	4828.3	4950.3	4936.9	4939.9
35°	4590.4	4626.1	4719.8	4681.1	4663.3
37.5°	4374.8	4394.1	4453.6	4395.6	4392.6
40°	4123.5	4148.8	4148.8	4068.5	4083.3
42.5°	3855.8	3864.8	3827.6	3751.7	3763.6
45°	3546.5	3567.4	3509.4	3454.3	3438.0
47.5°	3240.2	3261.0	3200.1	3136.1	3107.9
50°	2951.7	2941.3	2904.1	2795.6	2755.4
52.5°	2652.8	2620.1	2605.3	2446.1	2400.0
55°	2365.8	2306.4	2278.1	2116.0	2078.8
57.5°	2099.7	1992.6	1939.1	1812.7	1797.8
60°	1829.0	1708.6	1643.2	1561.4	1564.3
62.5°	1583.7	1457.3	1378.5	1354.7	1365.1
65°	1362.1	1237.2	1153.9	1185.2	1200.0
67.5°	1161.4	1058.8	965.1	1037.9	1052.8
70°	985.9	904.1	810.4	917.5	924.9
72.5°	840.2	773.2	694.4	795.6	811.9
75°	698.9	655.8	596.3	679.6	707.8
77.5°	575.5	541.3	507.1	557.6	588.9
80°	456.5	422.3	404.5	431.2	452.1
82.5°	322.7	300.4	282.5	301.9	312.3
85°	182.9	178.4	160.6	166.5	166.5
87.5°	41.6	47.6	53.5	49.1	41.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)