

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-L750-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-L750-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

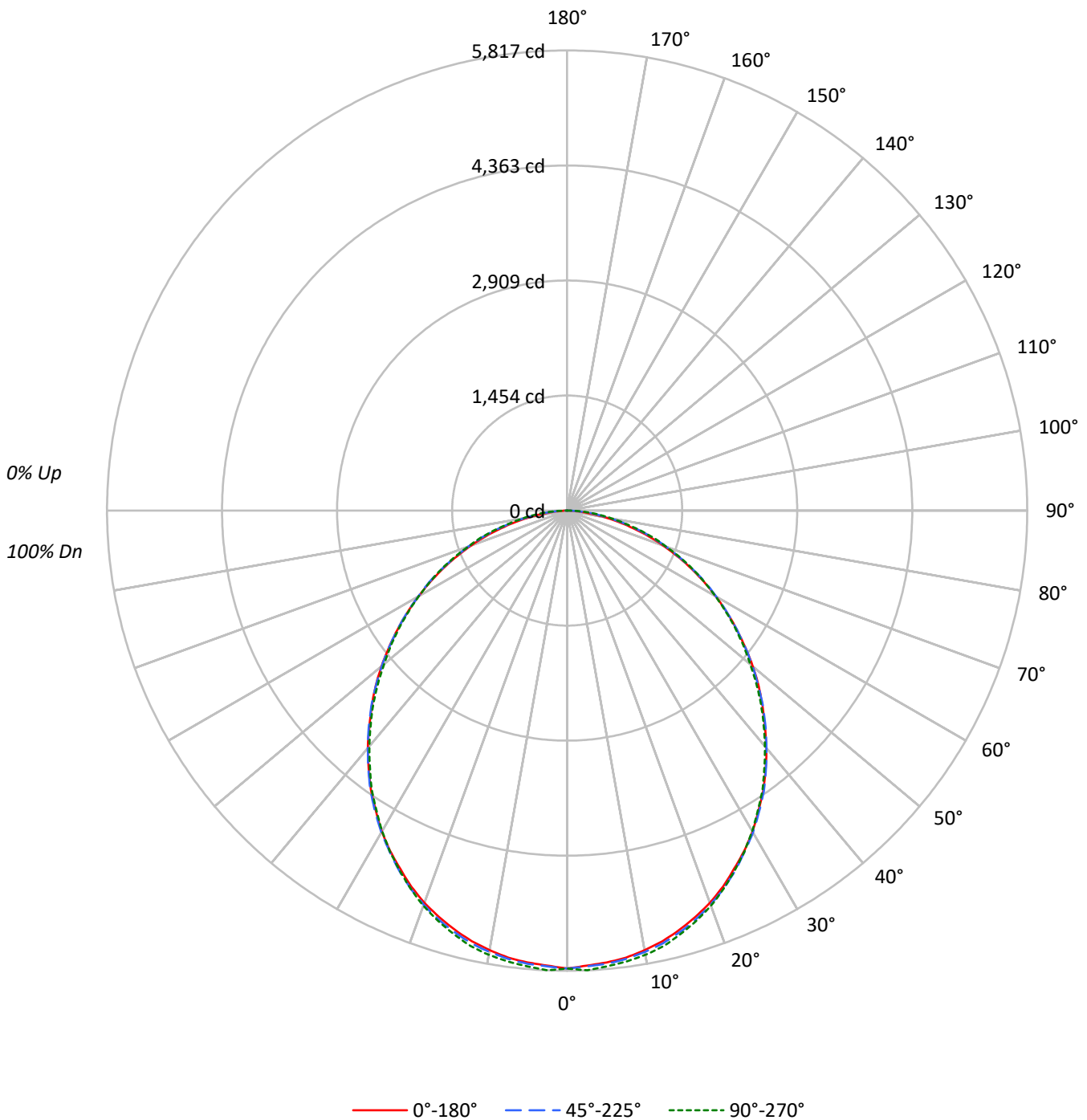
Lumens per Lamp: N/A  
Luminaire Lumens: 15121.0 lumens  
Efficiency: N/A  
Efficacy: 164.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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-L750-ED1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-15HE-W-FLI-UNV-L750-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	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°	7789	7789	7789
5°	7744	7766	7811
10°	7709	7740	7791
15°	7641	7683	7720
20°	7555	7591	7613
25°	7415	7457	7446
30°	7278	7298	7268
35°	7098	7116	7071
40°	6885	6885	6832
45°	6644	6662	6594
50°	6416	6405	6325
55°	6138	6139	6084
60°	5841	5847	5825
65°	5505	5560	5574
70°	5085	5223	5229
75°	4494	4784	4859
80°	3685	4190	4427
85°	2558	3518	3978



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-15HE-W-FLI-UNV-L750-ED1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	547.5	3.6
10°-20°	1557.4	10.3
20°-30°	2314.4	15.3
30°-40°	2706.2	17.9
40°-50°	2698.1	17.8
50°-60°	2341.0	15.5
60°-70°	1729.1	11.4
70°-80°	968.1	6.4
80°-90°	258.3	1.7
90°-100°	0.8	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°	4419.4	29.2
0°-40°	7125.6	47.1
0°-60°	12164.7	80.4
0°-90°	15120.2	100.0
90°-120°	0.8	0.0
90°-150°	0.8	0.0
90°-180°	1.0	0.0
0°-180°	15121.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5789	5789	5789	5789	5789	
5°	5734	5770	5750	5776	5783	545
15°	5486	5524	5516	5542	5542	1547
25°	4995	5035	5023	5034	5016	2303
35°	4321	4359	4332	4332	4305	2699
45°	3492	3529	3501	3487	3466	2695
55°	2617	2635	2617	2613	2593	2340
65°	1729	1746	1746	1755	1751	1710
75°	864	890	920	927	935	921
85°	166	200	228	248	258	201
90°	0	4	4	10	9	7
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-L750-ED1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5788.7	5788.7	5788.7	5788.7	5788.7
2.5°	5757.1	5791.3	5767.4	5790.2	5816.7
5°	5733.9	5770.0	5750.1	5775.5	5782.9
7.5°	5700.0	5735.0	5715.9	5741.3	5749.0
10°	5642.6	5680.5	5665.4	5694.1	5702.2
12.5°	5575.6	5611.3	5601.4	5634.9	5640.4
15°	5485.8	5524.1	5515.6	5542.1	5542.5
17.5°	5386.4	5422.5	5416.2	5436.8	5436.1
20°	5276.3	5315.0	5301.7	5324.2	5317.2
22.5°	5146.0	5187.2	5170.7	5189.4	5171.8
25°	4994.7	5034.8	5023.0	5034.1	5015.7
27.5°	4848.2	4885.0	4860.7	4874.0	4854.4
30°	4684.7	4716.0	4697.3	4701.7	4678.1
32.5°	4501.0	4538.2	4515.4	4514.7	4489.6
35°	4321.4	4359.3	4332.4	4331.7	4304.8
37.5°	4122.6	4158.0	4126.3	4128.1	4096.8
40°	3919.8	3950.3	3919.8	3918.3	3889.6
42.5°	3699.6	3740.1	3712.2	3715.5	3677.2
45°	3491.7	3528.8	3501.2	3486.9	3465.5
47.5°	3284.4	3300.6	3277.8	3274.1	3243.9
50°	3065.0	3077.1	3059.8	3055.4	3021.6
52.5°	2838.2	2859.2	2837.1	2831.2	2808.8
55°	2616.6	2634.7	2617.0	2612.6	2593.4
57.5°	2393.5	2417.1	2399.1	2394.6	2379.2
60°	2170.5	2177.5	2173.0	2179.7	2164.6
62.5°	1948.8	1965.0	1970.2	1968.4	1956.6
65°	1729.1	1746.0	1746.4	1755.2	1750.8
67.5°	1504.2	1526.2	1532.5	1541.7	1545.8
70°	1292.5	1309.4	1327.8	1333.3	1329.3
72.5°	1079.3	1106.6	1127.2	1132.0	1149.3
75°	864.4	890.1	920.3	926.9	934.7
77.5°	664.8	699.1	726.3	735.1	744.7
80°	475.6	513.5	540.8	552.9	571.3
82.5°	312.2	350.8	378.4	390.6	413.0
85°	165.7	200.3	227.9	248.1	257.7
87.5°	49.0	78.4	94.2	100.1	108.6
90°	0.0	3.7	4.4	9.9	9.2
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-L750-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)