

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-L840-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-L840-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: 13896.0 lumens
Efficiency: N/A
Efficacy: 151.4 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

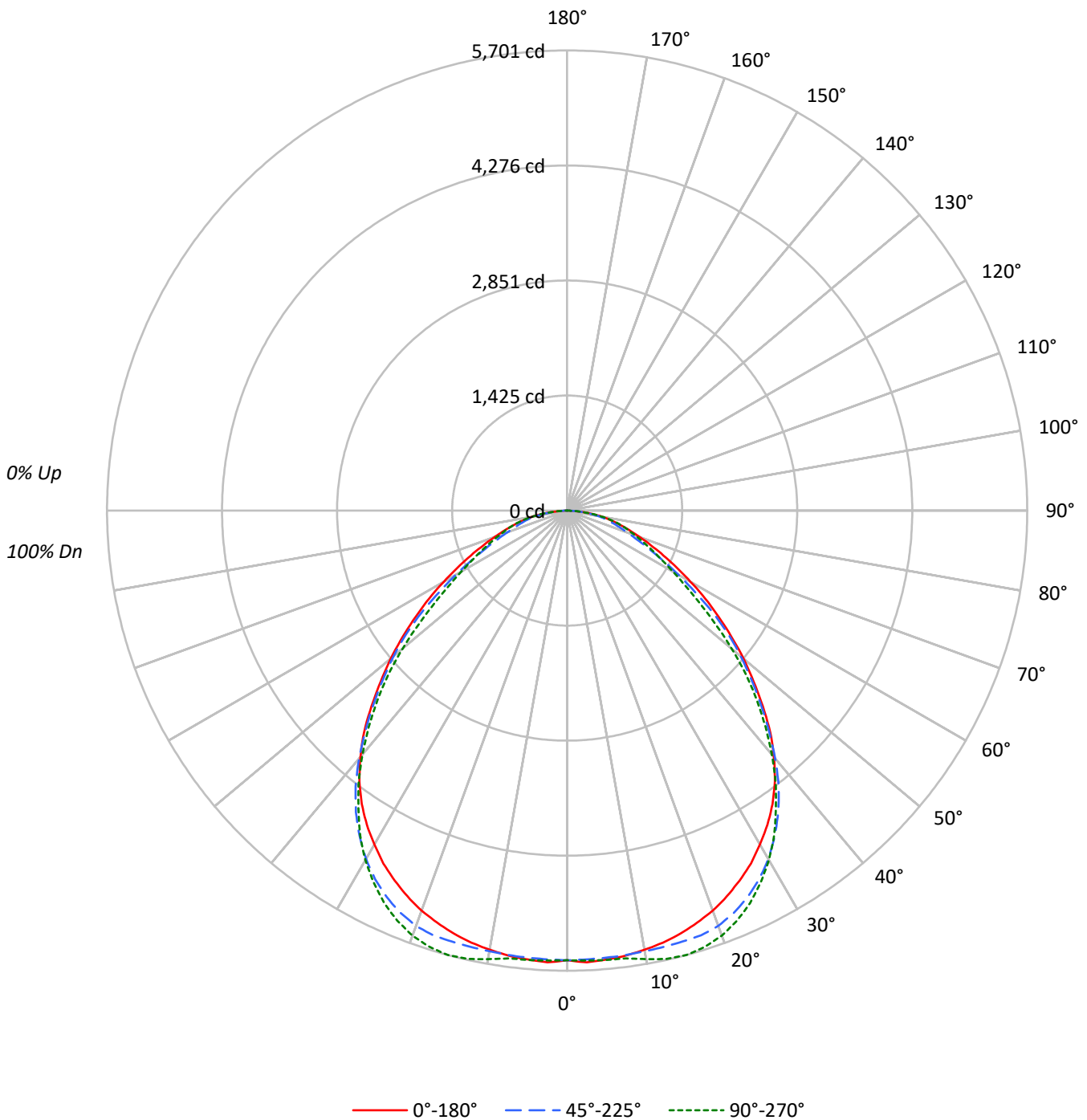
Input Watts (W): 91.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-15HE-W-CLWG-UNV-L840-ED1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-15HE-W-CLWG-UNV-L840-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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					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°	7497	7497	7497
5°	7541	7510	7547
10°	7548	7573	7709
15°	7557	7699	7942
20°	7552	7840	8023
25°	7506	7847	7963
30°	7420	7743	7768
35°	7287	7493	7403
40°	7000	7043	6932
45°	6522	6454	6322
50°	5972	5875	5574
55°	5364	5165	4713
60°	4757	4274	4068
65°	4191	3550	3692
70°	3748	3081	3517
75°	3512	2996	3556
80°	3419	3029	3385
85°	2729	2396	2485



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-15HE-W-CLWG-UNV-L840-ED1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	530.8	3.8
10°-20°	1563.4	11.3
20°-30°	2405.2	17.3
30°-40°	2807.0	20.2
40°-50°	2608.4	18.8
50°-60°	1933.5	13.9
60°-70°	1181.9	8.5
70°-80°	673.2	4.8
80°-90°	192.6	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°	4499.4	32.4
0°-40°	7306.4	52.6
0°-60°	11848.3	85.3
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°	5572	5572	5572	5572	5572	
5°	5583	5558	5560	5556	5588	531
15°	5425	5422	5527	5637	5701	1531
25°	5056	5095	5286	5330	5364	2329
35°	4436	4471	4562	4524	4507	2764
45°	3428	3448	3392	3338	3323	2641
55°	2286	2229	2202	2045	2009	2052
65°	1316	1196	1115	1145	1160	1317
75°	676	634	576	657	684	723
85°	177	172	155	161	161	204
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-15HE-W-CLWG-UNV-L840-ED1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5571.9	5571.9	5571.9	5571.9	5571.9
2.5°	5602.1	5570.5	5564.7	5551.8	5580.5
5°	5583.4	5557.5	5560.4	5556.1	5587.7
7.5°	5561.8	5543.2	5554.6	5553.2	5594.9
10°	5524.5	5514.4	5543.2	5574.8	5642.3
12.5°	5482.8	5472.7	5536.0	5616.4	5689.7
15°	5425.3	5422.4	5527.3	5636.6	5701.2
17.5°	5353.4	5357.8	5517.3	5610.7	5668.2
20°	5274.4	5281.6	5475.6	5551.8	5603.5
22.5°	5172.4	5196.8	5395.1	5458.4	5498.6
25°	5056.0	5094.8	5285.9	5330.5	5363.5
27.5°	4930.9	4969.7	5150.8	5173.8	5192.5
30°	4775.7	4830.3	4984.1	4987.0	4999.9
32.5°	4617.6	4666.5	4784.3	4771.4	4774.3
35°	4436.5	4471.0	4561.6	4524.2	4507.0
37.5°	4228.1	4246.8	4304.3	4248.3	4245.4
40°	3985.3	4009.7	4009.7	3932.1	3946.5
42.5°	3726.6	3735.2	3699.3	3626.0	3637.5
45°	3427.6	3447.8	3391.7	3338.5	3322.7
47.5°	3131.6	3151.7	3092.8	3031.0	3003.7
50°	2852.8	2842.7	2806.8	2701.9	2663.1
52.5°	2563.9	2532.3	2517.9	2364.1	2319.6
55°	2286.5	2229.0	2201.7	2045.1	2009.2
57.5°	2029.3	1925.8	1874.1	1751.9	1737.5
60°	1767.7	1651.3	1588.1	1509.0	1511.9
62.5°	1530.6	1408.4	1332.3	1309.3	1319.3
65°	1316.4	1195.7	1115.2	1145.4	1159.8
67.5°	1122.4	1023.3	932.7	1003.1	1017.5
70°	952.8	873.8	783.3	886.7	893.9
72.5°	812.0	747.3	671.2	768.9	784.7
75°	675.5	633.8	576.3	656.8	684.1
77.5°	556.2	523.1	490.1	538.9	569.1
80°	441.2	408.2	390.9	416.8	436.9
82.5°	311.9	290.3	273.1	291.7	301.8
85°	176.8	172.5	155.2	161.0	161.0
87.5°	40.2	46.0	51.7	47.4	40.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)