

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-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 (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-L840-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

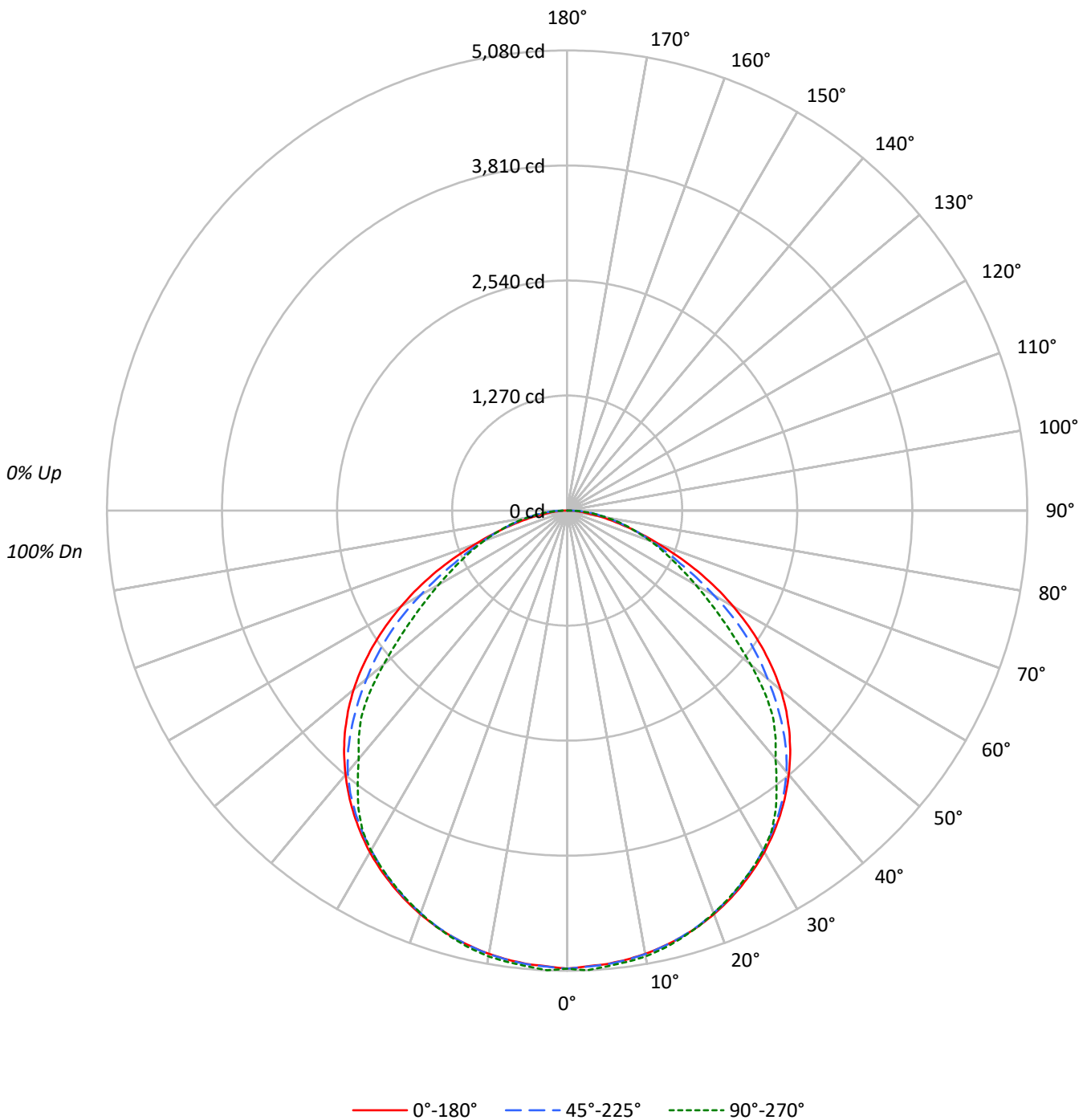
Lumens per Lamp: N/A
Luminaire Lumens: 13586.0 lumens
Efficiency: N/A
Efficacy: 142.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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-L840-ED1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-15SE-W-CLI-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	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°	6804	6804	6804
5°	6786	6790	6821
10°	6789	6793	6828
15°	6790	6789	6805
20°	6788	6773	6775
25°	6778	6753	6745
30°	6767	6726	6730
35°	6736	6694	6599
40°	6688	6619	6285
45°	6603	6391	6112
50°	6444	6051	5535
55°	6150	5659	4894
60°	5708	5049	4414
65°	5073	4372	4059
70°	4210	3907	3826
75°	3405	3576	3620
80°	2705	3419	3405
85°	2118	3674	3504



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-15SE-W-CLI-UNV-L840-ED1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	479.6	3.5
10°-20°	1379.4	10.2
20°-30°	2103.4	15.5
30°-40°	2544.7	18.7
40°-50°	2577.6	19.0
50°-60°	2130.4	15.7
60°-70°	1407.1	10.4
70°-80°	733.7	5.4
80°-90°	230.0	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°	3962.3	29.2
0°-40°	6507.1	47.9
0°-60°	11215.1	82.5
0°-90°	13586.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13586.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5057	5057	5057	5057	5057	
5°	5024	5054	5028	5050	5050	478
15°	4875	4900	4874	4889	4886	1377
25°	4566	4584	4549	4560	4543	2105
35°	4101	4106	4075	4070	4018	2565
45°	3470	3461	3359	3254	3212	2672
55°	2622	2583	2412	2178	2086	2337
65°	1594	1547	1373	1284	1275	1574
75°	655	666	688	697	696	714
85°	137	177	238	236	227	167
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-15SE-W-CLI-UNV-L840-ED1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5056.8	5056.8	5056.8	5056.8	5056.8
2.5°	5035.5	5065.3	5040.4	5062.2	5079.9
5°	5024.0	5054.4	5027.6	5049.5	5050.1
7.5°	5001.5	5031.9	5004.6	5026.4	5025.8
10°	4969.4	4997.9	4971.8	4997.9	4997.9
12.5°	4925.7	4953.6	4928.1	4952.4	4948.7
15°	4874.7	4899.6	4874.1	4889.2	4885.6
17.5°	4814.6	4837.0	4808.5	4821.2	4814.0
20°	4741.1	4761.8	4730.2	4746.6	4731.4
22.5°	4658.6	4678.0	4645.8	4657.9	4641.0
25°	4565.7	4583.9	4548.7	4560.2	4543.2
27.5°	4465.5	4481.9	4442.4	4456.4	4443.1
30°	4355.6	4363.5	4329.5	4347.7	4332.0
32.5°	4233.0	4237.9	4208.1	4224.5	4197.8
35°	4100.7	4106.1	4075.2	4069.7	4017.5
37.5°	3959.2	3961.7	3932.5	3883.3	3797.1
40°	3807.5	3806.2	3768.6	3655.1	3578.6
42.5°	3645.4	3644.8	3578.6	3449.3	3405.6
45°	3469.9	3460.8	3358.8	3254.4	3211.9
47.5°	3281.8	3272.0	3129.4	3046.2	2949.7
50°	3078.4	3061.4	2890.8	2777.3	2644.3
52.5°	2859.2	2833.1	2659.5	2476.2	2350.5
55°	2621.9	2583.0	2412.4	2178.1	2086.5
57.5°	2374.8	2317.1	2151.4	1923.2	1848.5
60°	2121.1	2056.7	1876.4	1688.8	1640.3
62.5°	1860.0	1796.3	1612.3	1470.9	1444.2
65°	1593.5	1547.4	1373.2	1283.9	1274.8
67.5°	1320.3	1304.0	1171.0	1125.5	1121.8
70°	1070.2	1067.2	993.1	970.1	972.5
72.5°	855.3	851.7	840.8	829.2	829.8
75°	655.0	666.5	687.8	696.9	696.3
77.5°	488.7	512.4	557.3	575.5	572.5
80°	349.1	384.3	441.3	458.3	439.5
82.5°	232.5	269.5	336.9	339.3	324.2
85°	137.2	176.7	238.0	236.1	227.0
87.5°	68.0	106.2	142.7	136.6	130.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)