

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-AI-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 (P23765)
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-AI-UNV-L840-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

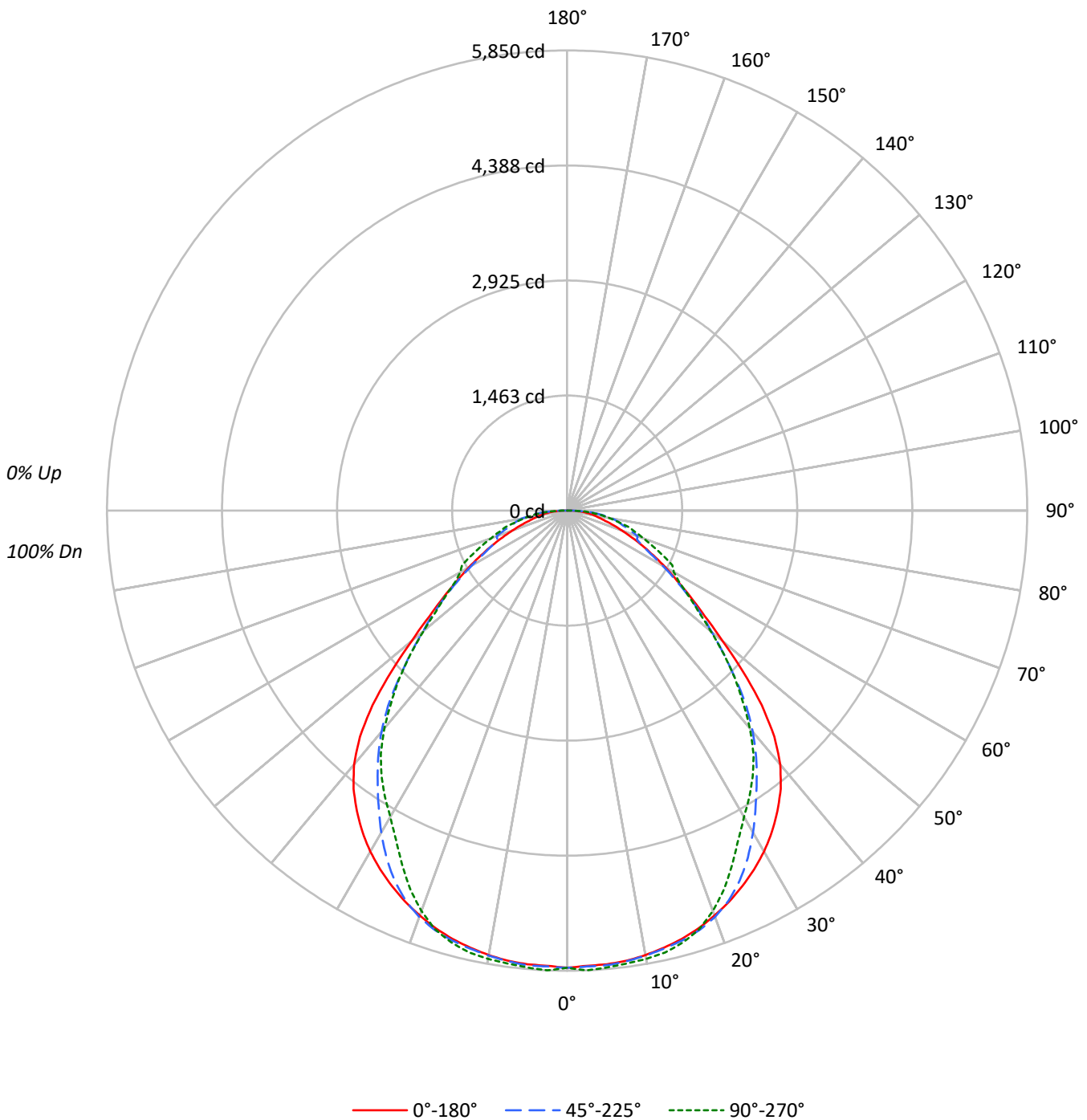
Lumens per Lamp: N/A
Luminaire Lumens: 13452.0 lumens
Efficiency: N/A
Efficacy: 146.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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



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Luminous Intensity Polar Plot





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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	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	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	66	58	52	64	57	51	62	55	51	60	54	50	48
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7820	7820	7820
5°	7819	7836	7874
10°	7839	7849	7906
15°	7851	7880	7919
20°	7843	7872	7755
25°	7823	7706	7371
30°	7777	7342	6984
35°	7660	6901	6757
40°	7403	6452	6346
45°	6654	5762	5740
50°	5397	5018	4984
55°	4482	4398	4397
60°	3880	3767	4211
65°	3363	3342	4245
70°	2900	3749	4046
75°	2600	3842	4218
80°	2703	4523	4232
85°	3067	5212	4837



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	553.4	4.1
10°-20°	1598.1	11.9
20°-30°	2373.5	17.6
30°-40°	2694.6	20.0
40°-50°	2408.9	17.9
50°-60°	1665.5	12.4
60°-70°	1099.0	8.2
70°-80°	741.4	5.5
80°-90°	317.6	2.4
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°	4525.0	33.6
0°-40°	7219.6	53.7
0°-60°	11294.0	84.0
0°-90°	13452.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13452.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5812	5812	5812	5812	5812	
5°	5789	5825	5802	5826	5830	551
15°	5636	5663	5657	5689	5685	1591
25°	5269	5319	5190	5036	4965	2428
35°	4663	4565	4201	4140	4114	2908
45°	3497	3201	3028	3051	3017	2659
55°	1910	1744	1875	1849	1874	1735
65°	1056	938	1050	1227	1333	1054
75°	500	629	739	790	811	546
85°	199	276	338	340	313	207
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5811.7	5811.7	5811.7	5811.7	5811.7
2.5°	5791.9	5828.1	5801.2	5826.2	5850.5
5°	5789.3	5824.8	5801.8	5825.5	5830.1
7.5°	5772.9	5805.8	5778.8	5801.8	5807.1
10°	5737.3	5776.1	5744.6	5780.1	5786.7
12.5°	5691.2	5730.7	5703.1	5751.8	5754.4
15°	5636.0	5662.9	5657.0	5688.6	5684.7
17.5°	5566.2	5597.1	5592.5	5600.4	5582.0
20°	5477.4	5512.2	5497.8	5461.6	5416.2
22.5°	5381.9	5424.1	5366.8	5275.3	5211.5
25°	5269.4	5319.4	5190.4	5035.8	4964.7
27.5°	5145.0	5189.8	4975.2	4785.7	4712.0
30°	5005.5	5024.6	4725.8	4545.5	4495.5
32.5°	4844.3	4816.6	4459.3	4340.2	4311.2
35°	4663.3	4565.2	4201.3	4140.1	4113.8
37.5°	4459.3	4279.6	3946.6	3918.3	3890.7
40°	4215.1	3949.9	3673.5	3655.1	3613.0
42.5°	3899.9	3591.3	3370.1	3348.4	3310.9
45°	3497.1	3201.0	3027.9	3051.0	3016.7
47.5°	3033.8	2809.4	2699.5	2762.7	2699.5
50°	2578.4	2427.7	2397.5	2454.7	2381.0
52.5°	2205.3	2069.7	2132.2	2142.1	2098.0
55°	1910.5	1744.0	1874.9	1848.6	1874.3
57.5°	1653.8	1467.6	1628.8	1598.5	1686.7
60°	1441.9	1232.6	1399.8	1393.2	1565.0
62.5°	1233.9	1066.8	1201.0	1297.8	1509.0
65°	1056.3	937.8	1049.7	1227.4	1333.3
67.5°	885.8	841.1	960.2	1058.9	1174.7
70°	737.1	760.1	952.9	934.5	1028.6
72.5°	612.0	690.3	841.1	844.3	910.8
75°	500.2	629.1	739.0	789.7	811.4
77.5°	415.9	570.6	667.3	685.1	664.0
80°	348.8	502.8	583.7	575.8	546.2
82.5°	281.7	381.0	460.0	467.3	432.4
85°	198.7	276.4	337.6	339.6	313.3
87.5°	106.6	170.4	204.7	210.6	194.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)