

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-LD5-12SE-W-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 (P23760)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12SE-W-UNV-L740-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

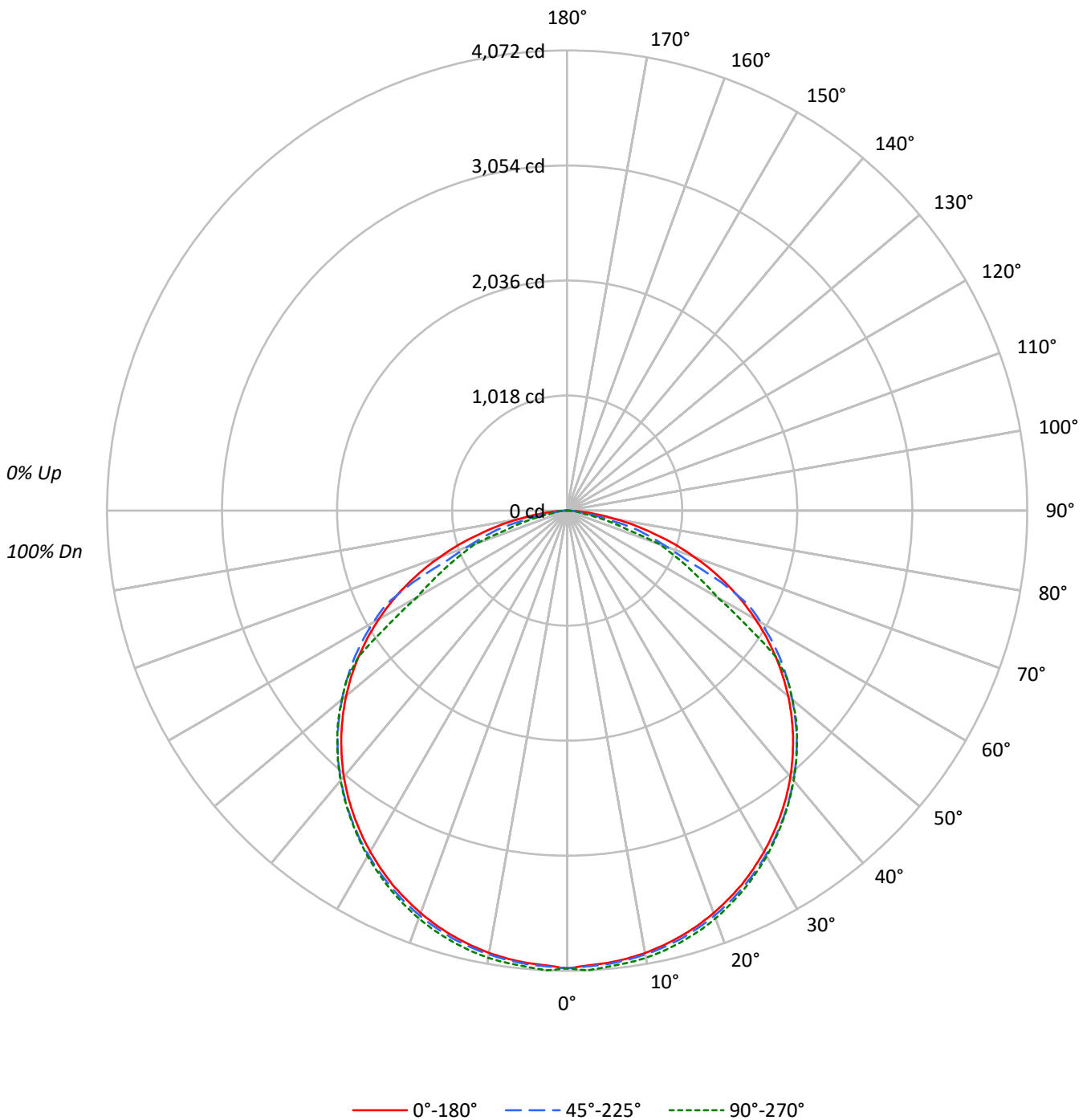
Lumens per Lamp: N/A
Luminaire Lumens: 11694.0 lumens
Efficiency: N/A
Efficacy: 152.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 76.6
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	102	99	95	98	95	92		94	92	89		91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76		83	78	75		80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64		73	68	63		70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55		65	59	54		63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47		58	52	47		56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41		53	46	41		51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36		48	41	36		46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32		44	37	32		43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29		40	34	29		39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26		37	31	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5450	5450	5450
5°	5428	5443	5474
10°	5431	5450	5491
15°	5429	5458	5496
20°	5427	5461	5500
25°	5425	5464	5494
30°	5415	5468	5488
35°	5408	5470	5478
40°	5399	5470	5479
45°	5378	5468	5474
50°	5346	5445	5444
55°	5284	5416	5281
60°	5186	5336	4132
65°	5012	4802	3723
70°	4696	3695	3431
75°	4158	3222	2138
80°	3424	1897	956
85°	2257	1162	1252



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.4	3.3
10°-20°	1109.0	9.5
20°-30°	1700.2	14.5
30°-40°	2085.2	17.8
40°-50°	2214.1	18.9
50°-60°	2022.3	17.3
60°-70°	1408.3	12.0
70°-80°	656.8	5.6
80°-90°	113.6	1.0
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°	3193.6	27.3
0°-40°	5278.8	45.1
0°-60°	9515.2	81.4
0°-90°	11694.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11694.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4051	4051	4051	4051	4051	
5°	4019	4047	4030	4049	4053	382
15°	3898	3925	3919	3942	3946	1101
25°	3654	3686	3680	3707	3701	1684
35°	3293	3330	3330	3353	3335	2060
45°	2826	2869	2874	2892	2877	2180
55°	2252	2298	2309	2313	2251	2012
65°	1574	1623	1508	1200	1169	1553
75°	800	850	620	429	411	855
85°	146	96	75	81	81	189
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4050.7	4050.7	4050.7	4050.7	4050.7
2.5°	4029.3	4055.1	4038.1	4056.5	4072.1
5°	4018.6	4046.8	4029.8	4049.2	4052.6
7.5°	4001.2	4027.9	4012.3	4033.7	4039.0
10°	3974.9	4001.2	3989.0	4014.3	4019.1
12.5°	3939.5	3966.2	3957.0	3984.6	3988.0
15°	3897.7	3924.9	3918.6	3942.4	3945.8
17.5°	3848.7	3876.8	3869.6	3894.8	3897.2
20°	3789.9	3820.5	3814.2	3843.8	3840.9
22.5°	3723.9	3756.4	3751.5	3781.2	3772.4
25°	3653.9	3686.0	3680.2	3707.4	3700.6
27.5°	3571.9	3607.3	3602.0	3628.2	3617.5
30°	3485.4	3521.4	3519.4	3543.2	3532.5
32.5°	3392.2	3430.5	3428.6	3451.9	3435.4
35°	3292.6	3330.5	3330.5	3352.8	3334.9
37.5°	3187.2	3225.6	3226.1	3247.5	3230.5
40°	3073.6	3112.0	3114.4	3134.8	3119.2
42.5°	2954.1	2995.9	2997.8	3016.3	3001.7
45°	2826.4	2869.1	2873.5	2892.0	2876.9
47.5°	2692.9	2736.1	2740.0	2759.9	2749.2
50°	2554.0	2595.7	2601.1	2617.6	2600.6
52.5°	2407.3	2450.0	2457.3	2467.5	2459.7
55°	2252.4	2297.5	2308.7	2312.6	2251.4
57.5°	2092.1	2138.3	2148.9	2059.6	1862.9
60°	1927.0	1972.7	1982.9	1675.4	1535.6
62.5°	1755.1	1799.8	1810.9	1388.4	1343.8
65°	1574.4	1623.0	1508.4	1199.5	1169.4
67.5°	1388.9	1438.9	1140.8	1028.1	1010.1
70°	1193.7	1244.2	939.2	876.6	872.2
72.5°	1006.2	1043.6	770.7	664.4	559.5
75°	799.8	850.3	619.7	429.3	411.3
77.5°	620.2	536.1	373.9	314.7	248.2
80°	441.9	358.4	244.8	130.6	123.4
82.5°	280.2	234.1	96.2	98.6	103.0
85°	146.2	96.2	75.3	80.6	81.1
87.5°	47.1	41.3	45.2	44.7	44.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)