

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-L735-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-L735-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

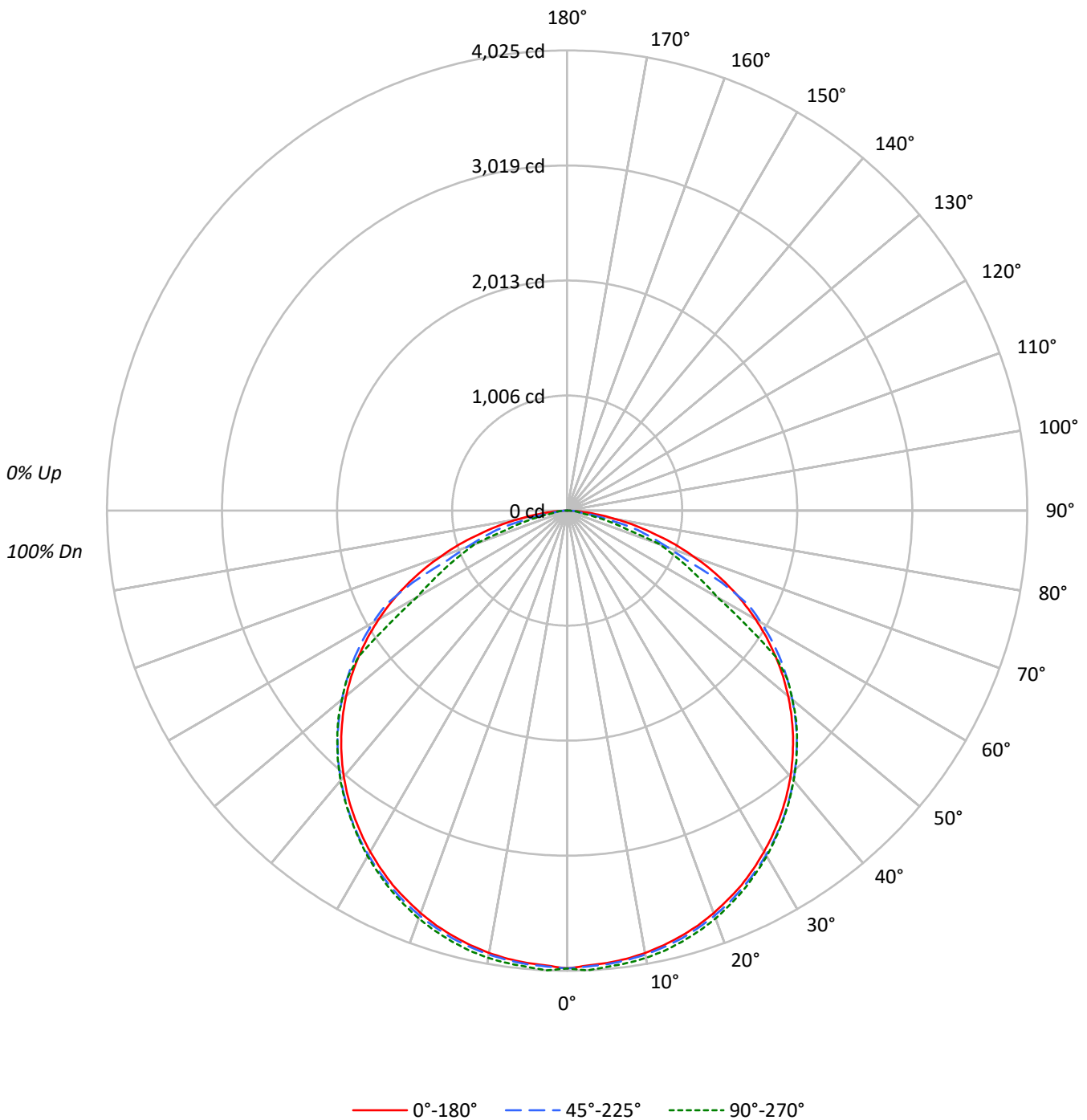
Lumens per Lamp: N/A
Luminaire Lumens: 11560.0 lumens
Efficiency: N/A
Efficacy: 150.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	5388	5388	5388
5°	5366	5380	5411
10°	5369	5388	5428
15°	5367	5396	5433
20°	5364	5399	5437
25°	5362	5401	5431
30°	5353	5405	5425
35°	5346	5408	5415
40°	5337	5407	5416
45°	5316	5405	5411
50°	5285	5382	5381
55°	5223	5354	5221
60°	5126	5275	4085
65°	4955	4747	3680
70°	4642	3653	3392
75°	4111	3185	2114
80°	3385	1875	945
85°	2231	1149	1238



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.0	3.3
10°-20°	1096.3	9.5
20°-30°	1680.8	14.5
30°-40°	2061.3	17.8
40°-50°	2188.7	18.9
50°-60°	1999.1	17.3
60°-70°	1392.2	12.0
70°-80°	649.3	5.6
80°-90°	112.3	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°	3157.0	27.3
0°-40°	5218.3	45.1
0°-60°	9406.2	81.4
0°-90°	11560.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11560.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4004	4004	4004	4004	4004	
5°	3973	4000	3984	4003	4006	378
15°	3853	3880	3874	3897	3901	1088
25°	3612	3644	3638	3665	3658	1665
35°	3255	3292	3292	3314	3297	2037
45°	2794	2836	2841	2859	2844	2155
55°	2227	2271	2282	2286	2226	1988
65°	1556	1604	1491	1186	1156	1536
75°	791	841	613	424	407	845
85°	144	95	74	80	80	187
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4004.3	4004.3	4004.3	4004.3	4004.3
2.5°	3983.2	4008.6	3991.8	4010.0	4025.4
5°	3972.6	4000.4	3983.6	4002.8	4006.2
7.5°	3955.3	3981.7	3966.4	3987.5	3992.8
10°	3929.4	3955.3	3943.3	3968.3	3973.1
12.5°	3894.3	3920.7	3911.6	3939.0	3942.3
15°	3853.1	3879.9	3873.7	3897.2	3900.6
17.5°	3804.6	3832.4	3825.2	3850.2	3852.6
20°	3746.5	3776.7	3770.5	3799.8	3796.9
22.5°	3681.2	3713.4	3708.6	3737.8	3729.2
25°	3612.1	3643.7	3638.0	3664.9	3658.1
27.5°	3530.9	3566.0	3560.7	3586.6	3576.1
30°	3445.5	3481.0	3479.1	3502.6	3492.0
32.5°	3353.3	3391.2	3389.3	3412.4	3396.0
35°	3254.9	3292.3	3292.3	3314.4	3296.7
37.5°	3150.7	3188.6	3189.1	3210.2	3193.4
40°	3038.4	3076.3	3078.7	3098.9	3083.5
42.5°	2920.3	2961.6	2963.5	2981.7	2967.3
45°	2794.0	2836.3	2840.6	2858.8	2843.9
47.5°	2662.0	2704.7	2708.6	2728.2	2717.7
50°	2524.7	2566.0	2571.3	2587.6	2570.8
52.5°	2379.7	2422.0	2429.2	2439.2	2431.6
55°	2226.6	2271.2	2282.3	2286.1	2225.6
57.5°	2068.1	2113.8	2124.3	2036.0	1841.6
60°	1904.9	1950.1	1960.1	1656.2	1518.0
62.5°	1735.0	1779.1	1790.2	1372.5	1328.4
65°	1556.4	1604.4	1491.1	1185.8	1156.0
67.5°	1373.0	1422.5	1127.7	1016.3	998.5
70°	1180.0	1229.9	928.5	866.5	862.2
72.5°	994.7	1031.7	761.9	656.7	553.0
75°	790.7	840.6	612.6	424.4	406.6
77.5°	613.1	530.0	369.7	311.1	245.3
80°	436.9	354.3	242.0	129.1	121.9
82.5°	277.0	231.4	95.1	97.5	101.8
85°	144.5	95.1	74.4	79.7	80.2
87.5°	46.6	40.8	44.6	44.2	43.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)