

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-CL-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 (P23762)
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-CL-UNV-L740-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

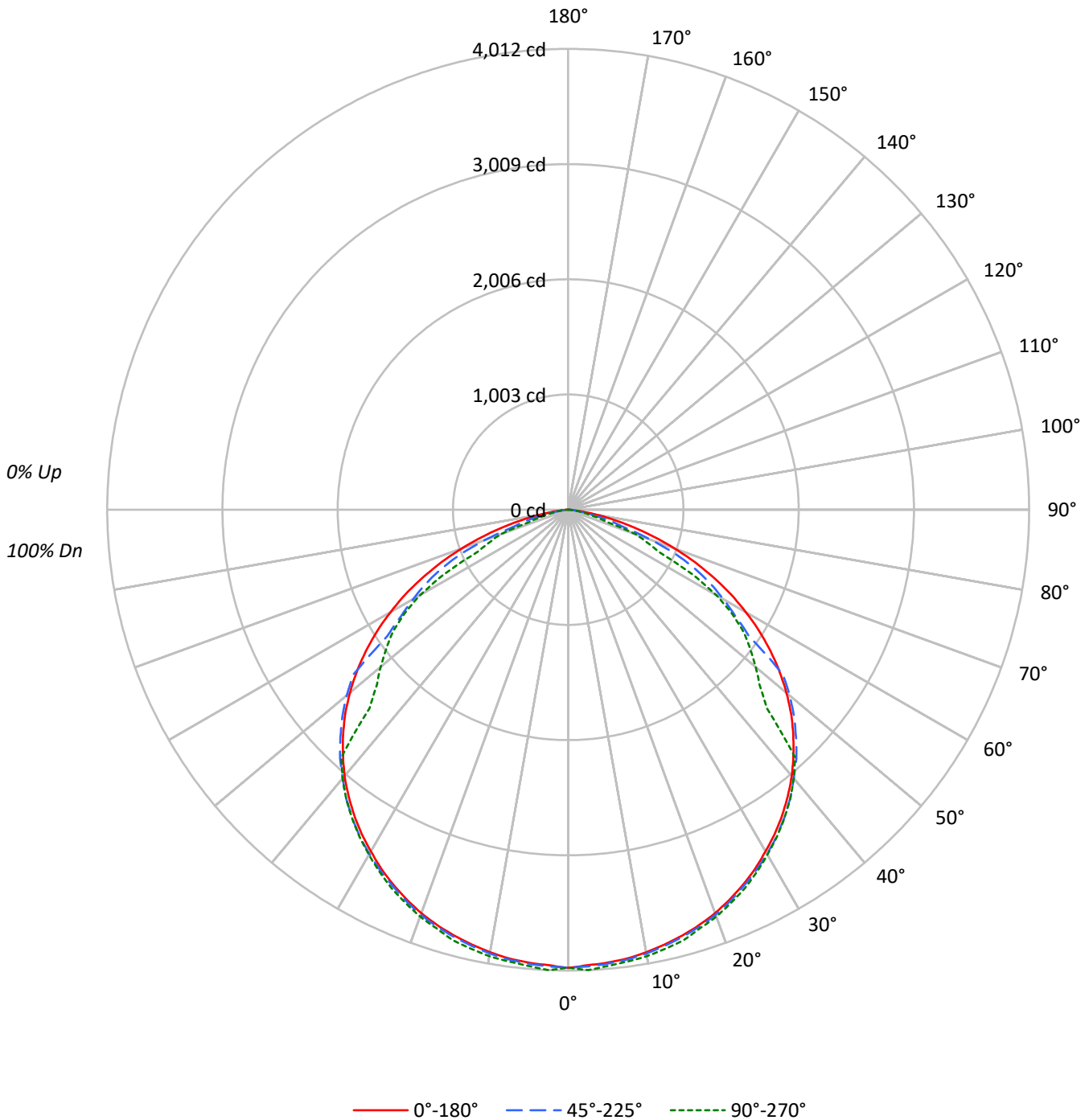
Lumens per Lamp: N/A
Luminaire Lumens: 10782.0 lumens
Efficiency: N/A
Efficacy: 140.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5366	5366	5366
5°	5347	5358	5385
10°	5346	5361	5392
15°	5346	5362	5405
20°	5352	5373	5398
25°	5346	5366	5399
30°	5336	5375	5388
35°	5334	5382	5386
40°	5317	5364	5364
45°	5271	5335	4649
50°	5190	5268	4460
55°	5043	4510	4381
60°	4806	4192	4003
65°	4445	3891	2772
70°	3870	3028	2470
75°	3057	2032	1328
80°	1968	971	828
85°	809	593	651



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.3	3.5
10°-20°	1090.4	10.1
20°-30°	1671.8	15.5
30°-40°	2049.1	19.0
40°-50°	2106.6	19.5
50°-60°	1797.9	16.7
60°-70°	1188.6	11.0
70°-80°	440.4	4.1
80°-90°	58.9	0.5
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°	3140.6	29.1
0°-40°	5189.6	48.1
0°-60°	9094.1	84.3
0°-90°	10782.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10782.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3988	3988	3988	3988	3988	
5°	3959	3986	3967	3983	3987	377
15°	3838	3861	3849	3878	3880	1084
25°	3601	3620	3615	3647	3637	1660
35°	3247	3270	3277	3297	3279	2031
45°	2770	2798	2804	2800	2443	2135
55°	2150	2189	1922	1867	1868	1918
65°	1396	1408	1222	1005	871	1377
75°	588	515	391	263	255	631
85°	52	37	38	42	42	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3988.2	3988.2	3988.2	3988.2	3988.2
2.5°	3968.8	3993.6	3979.0	3997.4	4011.5
5°	3958.6	3986.3	3967.3	3982.9	3986.8
7.5°	3941.1	3966.9	3949.4	3969.8	3966.9
10°	3913.0	3936.3	3924.1	3945.5	3946.9
12.5°	3877.0	3900.3	3889.2	3915.4	3914.9
15°	3837.7	3861.0	3849.3	3878.5	3880.4
17.5°	3791.6	3812.9	3804.2	3830.9	3820.2
20°	3738.1	3756.6	3752.2	3777.5	3769.7
22.5°	3672.6	3691.5	3687.2	3716.3	3704.6
25°	3601.2	3620.1	3614.8	3647.3	3636.6
27.5°	3524.0	3542.0	3541.5	3572.1	3555.6
30°	3434.6	3458.4	3459.9	3487.1	3467.7
32.5°	3346.3	3368.6	3374.9	3394.8	3378.3
35°	3247.2	3269.5	3276.8	3297.2	3279.2
37.5°	3140.4	3159.3	3172.4	3187.5	3173.4
40°	3027.2	3044.2	3053.9	3072.4	3053.9
42.5°	2901.0	2925.2	2938.8	2952.0	2921.8
45°	2770.3	2798.0	2803.8	2799.5	2443.0
47.5°	2631.9	2662.1	2665.5	2324.6	2259.0
50°	2479.5	2517.3	2516.9	2148.3	2130.8
52.5°	2320.7	2357.1	2355.6	2010.4	1998.7
55°	2149.7	2189.1	1922.5	1866.6	1867.6
57.5°	1975.4	2003.6	1724.8	1727.3	1695.2
60°	1786.0	1812.7	1557.8	1542.7	1487.4
62.5°	1596.2	1607.3	1396.1	1322.8	1217.4
65°	1396.1	1407.8	1222.3	1005.2	870.7
67.5°	1190.7	1202.3	1014.4	747.8	737.6
70°	983.8	888.6	769.7	623.0	627.9
72.5°	779.9	682.8	503.1	482.7	348.7
75°	588.1	515.2	390.9	262.7	255.4
77.5°	409.4	355.0	209.3	179.2	167.5
80°	254.0	178.2	125.3	111.2	106.8
82.5°	128.7	102.5	68.0	68.0	68.0
85°	52.4	37.4	38.4	41.8	42.2
87.5°	11.2	15.1	18.5	18.9	18.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)