

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-LD5-12HE-W-WG-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 (P33336)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12HE-W-WG-UNV-L740-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

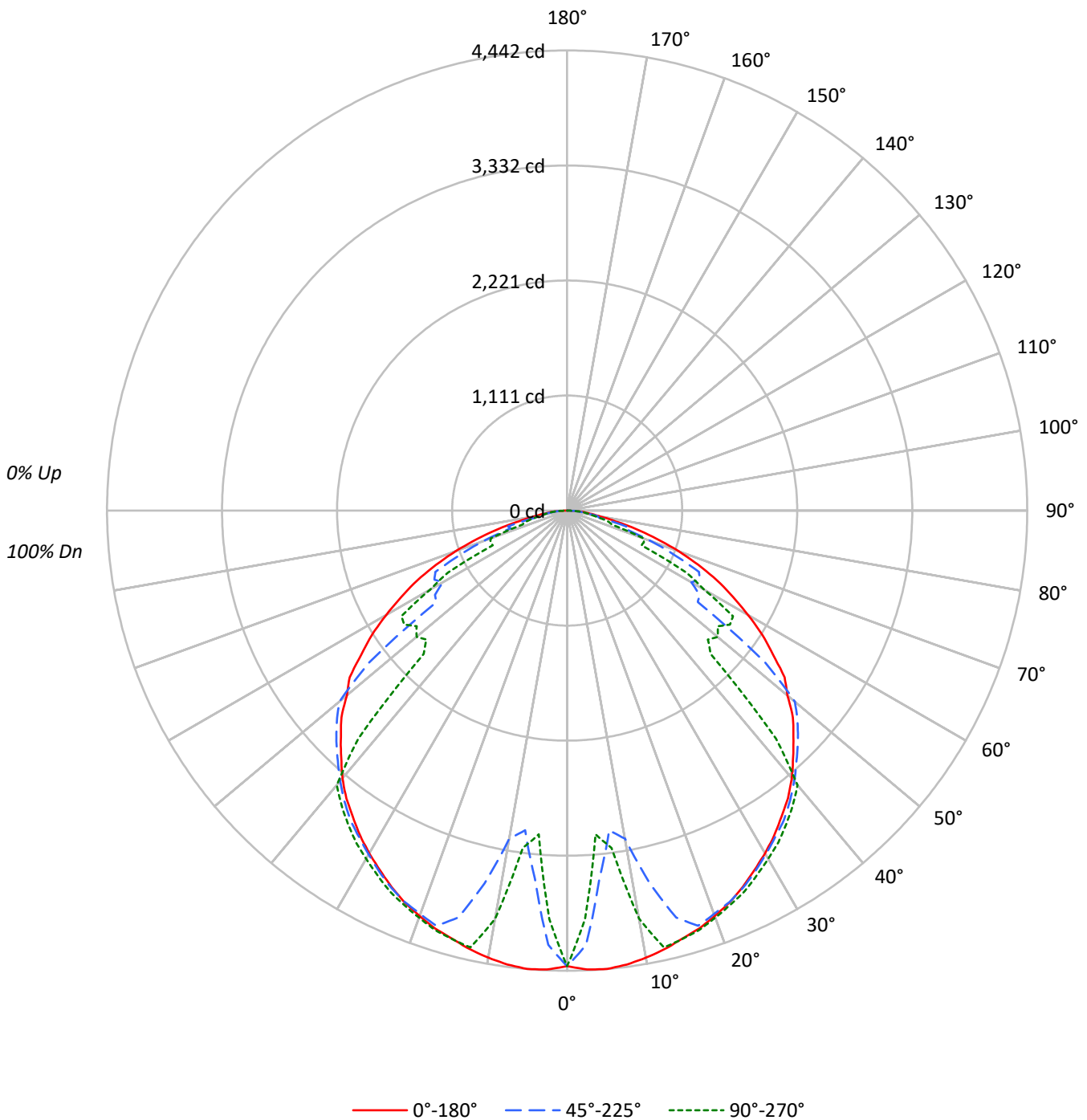
Lumens per Lamp: N/A
Luminaire Lumens: 11650.0 lumens
Efficiency: N/A
Efficacy: 160.5 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 72.6
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	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5917	5917	5917
5°	5999	4819	4238
10°	5989	4395	5466
15°	5962	5665	5967
20°	5962	5935	5988
25°	5952	5965	6020
30°	5934	5954	6031
35°	5925	5991	6060
40°	5926	5990	6076
45°	5879	5994	3725
50°	5813	6006	3970
55°	5690	3612	4500
60°	5428	3723	4120
65°	5086	4470	2521
70°	4491	3386	3091
75°	3578	3078	2143
80°	2465	2225	1842
85°	2362	2053	1948



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.6	3.0
10°-20°	1101.7	9.5
20°-30°	1812.5	15.6
30°-40°	2278.9	19.6
40°-50°	2235.1	19.2
50°-60°	1851.9	15.9
60°-70°	1306.2	11.2
70°-80°	569.9	4.9
80°-90°	142.4	1.2
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°	3265.8	28.0
0°-40°	5544.7	47.6
0°-60°	9631.6	82.7
0°-90°	11650.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11650.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4398	4398	4398	4398	4398	
5°	4442	4134	3568	3235	3138	422
15°	4280	2972	4067	4297	4284	1210
25°	4009	3668	4018	4045	4055	1848
35°	3607	3605	3647	3671	3690	2260
45°	3090	3099	3150	2790	1958	2385
55°	2426	2505	1540	1750	1918	2170
65°	1598	1692	1404	1080	792	1571
75°	688	675	592	387	412	738
85°	153	136	133	127	126	159
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4397.5	4397.5	4397.5	4397.5	4397.5
2.5°	4433.8	4341.8	4195.6	4011.5	3946.3
5°	4441.7	4134.1	3568.3	3235.4	3138.1
7.5°	4419.1	3757.0	3110.8	3180.7	3283.8
10°	4383.3	3425.8	3217.0	3784.9	4001.0
12.5°	4337.6	3131.3	3685.5	4275.5	4318.6
15°	4280.2	2972.5	4066.8	4297.1	4283.9
17.5°	4231.9	3065.6	4203.5	4253.9	4244.5
20°	4164.0	3251.2	4145.1	4185.6	4181.9
22.5°	4095.7	3471.0	4089.9	4118.8	4118.8
25°	4008.9	3668.2	4017.8	4044.7	4054.7
27.5°	3913.7	3781.8	3927.9	3950.0	3967.9
30°	3819.6	3798.1	3832.2	3860.6	3881.7
32.5°	3720.2	3711.8	3738.6	3768.6	3795.4
35°	3607.2	3605.1	3647.1	3671.3	3689.7
37.5°	3501.0	3493.6	3532.5	3566.2	3580.4
40°	3373.7	3373.7	3410.5	3444.7	3459.4
42.5°	3228.6	3249.1	3277.5	3312.7	2983.5
45°	3089.8	3099.2	3150.2	2790.0	1957.7
47.5°	2956.2	2968.3	3016.7	1793.6	1842.5
50°	2776.9	2831.6	2869.4	1788.3	1896.7
52.5°	2646.0	2669.6	2408.8	1770.5	1831.5
55°	2425.6	2505.0	1539.6	1750.5	1918.2
57.5°	2237.4	2295.2	1513.9	1793.6	1897.7
60°	2017.1	2105.4	1383.5	1730.5	1531.2
62.5°	1805.7	1889.8	1444.4	1361.9	1296.7
65°	1597.5	1691.6	1404.0	1080.0	791.9
67.5°	1369.3	1281.4	1120.0	760.9	800.8
70°	1141.6	895.0	860.8	850.8	785.6
72.5°	907.6	653.1	571.6	638.4	456.9
75°	688.3	674.6	592.1	387.0	412.2
77.5°	477.5	486.9	317.1	377.5	313.4
80°	318.1	275.5	287.1	240.8	237.7
82.5°	220.3	225.1	188.8	183.0	185.6
85°	153.0	136.2	133.0	127.3	126.2
87.5°	51.0	59.4	55.2	50.0	53.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)