

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-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 (P23760)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12HE-W-UNV-L840-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

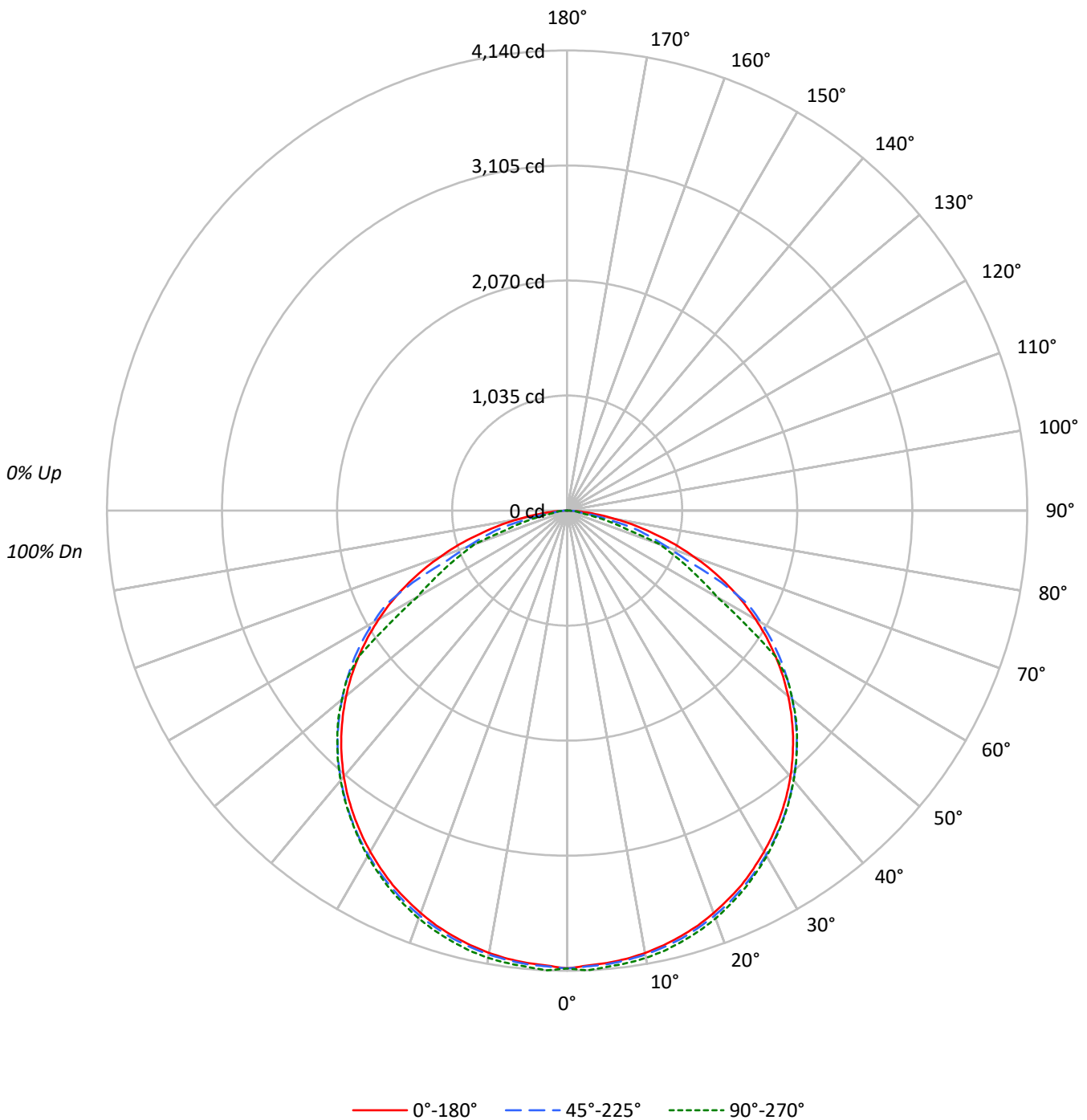
Lumens per Lamp: N/A
Luminaire Lumens: 11890.0 lumens
Efficiency: N/A
Efficacy: 163.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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



TEST NUMBER: P#
CATALOG NUMBER: HBLED-LD5-12HE-W-UNV-L840-ED1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-12HE-W-UNV-L840-ED1-U

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°	5542	5542	5542
5°	5519	5534	5565
10°	5522	5541	5583
15°	5520	5550	5588
20°	5517	5553	5592
25°	5516	5555	5586
30°	5506	5560	5580
35°	5499	5562	5570
40°	5489	5562	5570
45°	5468	5559	5566
50°	5436	5536	5535
55°	5372	5507	5370
60°	5272	5425	4201
65°	5096	4883	3785
70°	4775	3757	3489
75°	4227	3276	2174
80°	3481	1929	972
85°	2294	1181	1274



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-12HE-W-UNV-L840-ED1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	390.8	3.3
10°-20°	1127.6	9.5
20°-30°	1728.7	14.5
30°-40°	2120.1	17.8
40°-50°	2251.2	18.9
50°-60°	2056.2	17.3
60°-70°	1431.9	12.0
70°-80°	667.9	5.6
80°-90°	115.5	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°	3247.1	27.3
0°-40°	5367.3	45.1
0°-60°	9674.7	81.4
0°-90°	11890.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11890.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4119	4119	4119	4119	4119	
5°	4086	4115	4097	4117	4121	389
15°	3963	3991	3984	4008	4012	1119
25°	3715	3748	3742	3770	3763	1712
35°	3348	3386	3386	3409	3391	2095
45°	2874	2917	2922	2940	2925	2216
55°	2290	2336	2347	2351	2289	2045
65°	1601	1650	1534	1220	1189	1580
75°	813	865	630	436	418	869
85°	149	98	76	82	82	192
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-12HE-W-UNV-L840-ED1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4118.6	4118.6	4118.6	4118.6	4118.6
2.5°	4096.9	4123.0	4105.7	4124.5	4140.3
5°	4086.0	4114.6	4097.4	4117.1	4120.6
7.5°	4068.2	4095.4	4079.6	4101.3	4106.7
10°	4041.6	4068.2	4055.9	4081.6	4086.5
12.5°	4005.5	4032.7	4023.3	4051.4	4054.9
15°	3963.0	3990.7	3984.3	4008.5	4011.9
17.5°	3913.2	3941.8	3934.4	3960.1	3962.6
20°	3853.4	3884.5	3878.1	3908.2	3905.3
22.5°	3786.3	3819.4	3814.4	3844.5	3835.7
25°	3715.2	3747.8	3741.8	3769.5	3762.6
27.5°	3631.7	3667.8	3662.3	3689.0	3678.1
30°	3543.8	3580.4	3578.4	3602.6	3591.7
32.5°	3449.0	3488.0	3486.1	3509.8	3493.0
35°	3347.8	3386.3	3386.3	3409.0	3390.8
37.5°	3240.7	3279.7	3280.2	3301.9	3284.6
40°	3125.1	3164.1	3166.6	3187.3	3171.5
42.5°	3003.6	3046.1	3048.1	3066.8	3052.0
45°	2873.8	2917.2	2921.7	2940.4	2925.1
47.5°	2738.0	2781.9	2785.9	2806.1	2795.3
50°	2596.8	2639.2	2644.7	2661.5	2644.2
52.5°	2447.6	2491.1	2498.5	2508.9	2501.0
55°	2290.1	2336.1	2347.4	2351.4	2289.1
57.5°	2127.2	2174.1	2185.0	2094.1	1894.1
60°	1959.3	2005.7	2016.1	1703.5	1561.3
62.5°	1784.5	1829.9	1841.3	1411.7	1366.3
65°	1600.8	1650.2	1533.7	1219.6	1189.0
67.5°	1412.2	1463.1	1159.9	1045.3	1027.1
70°	1213.7	1265.1	955.0	891.3	886.8
72.5°	1023.1	1061.1	783.6	675.5	568.8
75°	813.2	864.6	630.1	436.5	418.2
77.5°	630.6	545.1	380.2	320.0	252.3
80°	449.3	364.4	248.9	132.8	125.4
82.5°	284.9	238.0	97.8	100.2	104.7
85°	148.6	97.8	76.5	82.0	82.5
87.5°	47.9	42.0	45.9	45.4	44.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)