

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-CLWG-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 (P33385)
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-CLWG-UNV-L840-ED1-U
Description: METALUX HIGH BAY LINEAR LED
WIDE DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

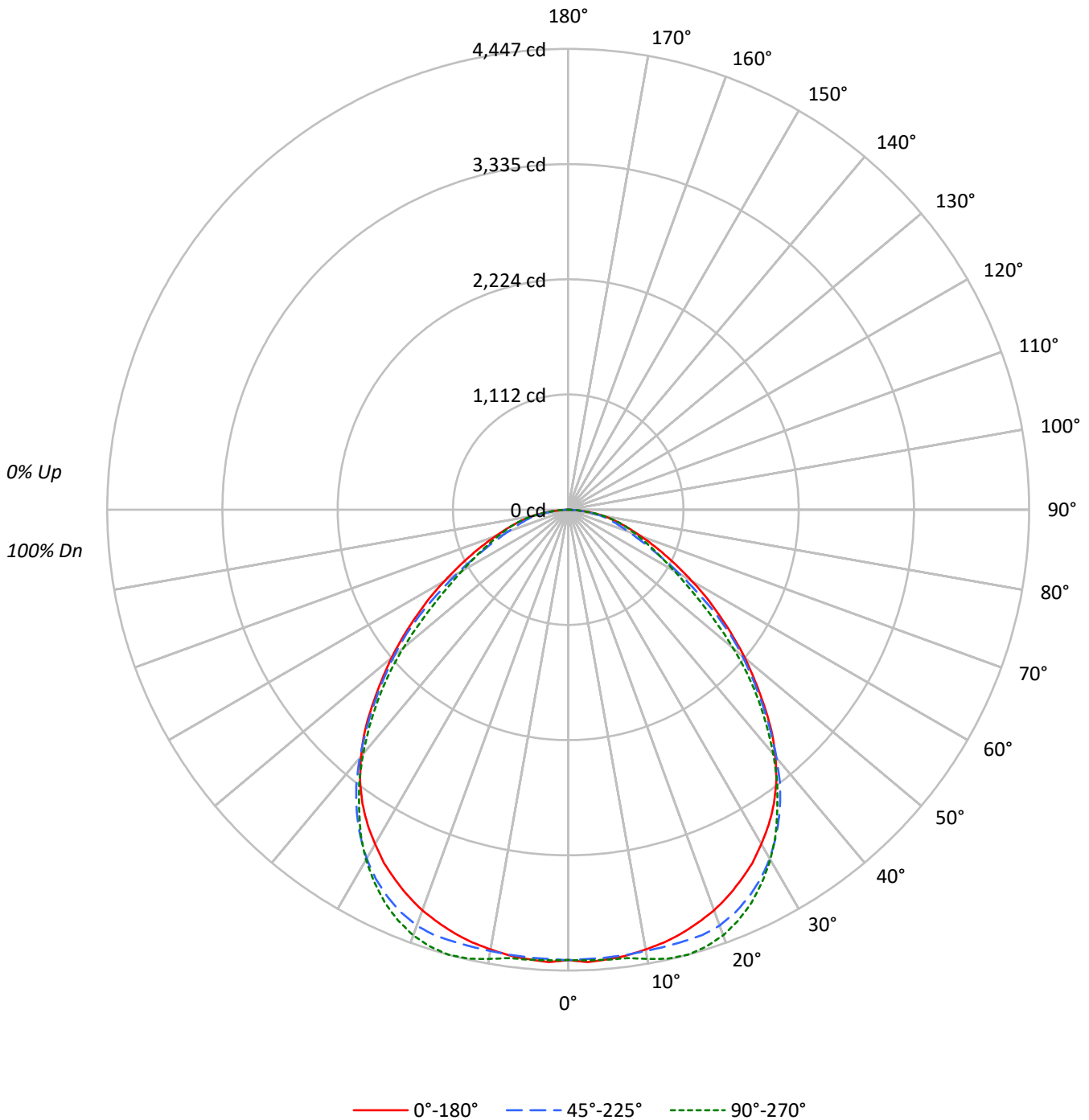
Lumens per Lamp: N/A
Luminaire Lumens: 10839.0 lumens
Efficiency: N/A
Efficacy: 149.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 72.6
Input Voltage (V): NR
Input Current (A_{in}): 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-CLWG-UNV-L840-ED1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-12HE-W-CLWG-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	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65	63
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55
5	79	67	58	52	77	65	57	52	63	56	51	61	55	50	60	54	50	48
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44	42
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5848	5848	5848
5°	5882	5858	5887
10°	5887	5907	6013
15°	5895	6006	6194
20°	5891	6115	6258
25°	5855	6121	6211
30°	5787	6040	6059
35°	5684	5844	5774
40°	5460	5493	5407
45°	5087	5034	4932
50°	4658	4583	4348
55°	4184	4029	3676
60°	3710	3333	3173
65°	3269	2769	2880
70°	2924	2403	2743
75°	2739	2337	2774
80°	2666	2362	2641
85°	2129	1870	1939



TEST NUMBER: P#

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	414.0	3.8
10°-20°	1219.5	11.3
20°-30°	1876.1	17.3
30°-40°	2189.5	20.2
40°-50°	2034.6	18.8
50°-60°	1508.1	13.9
60°-70°	921.9	8.5
70°-80°	525.1	4.8
80°-90°	150.2	1.4
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°	3509.6	32.4
0°-40°	5699.0	52.6
0°-60°	9241.8	85.3
0°-90°	10839.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10839.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4346	4346	4346	4346	4346	
5°	4355	4335	4337	4334	4358	414
15°	4232	4230	4311	4397	4447	1194
25°	3944	3974	4123	4158	4184	1817
35°	3460	3487	3558	3529	3516	2156
45°	2674	2689	2646	2604	2592	2060
55°	1784	1739	1717	1595	1567	1601
65°	1027	933	870	893	905	1028
75°	527	494	450	512	534	564
85°	138	134	121	126	126	159
90°	0	0	0	0	0	



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4346.1	4346.1	4346.1	4346.1	4346.1
2.5°	4369.7	4345.0	4340.5	4330.4	4352.9
5°	4355.1	4334.9	4337.2	4333.8	4358.5
7.5°	4338.3	4323.7	4332.7	4331.6	4364.1
10°	4309.1	4301.3	4323.7	4348.4	4401.1
12.5°	4276.6	4268.8	4318.1	4380.9	4438.0
15°	4231.8	4229.5	4311.4	4396.6	4447.0
17.5°	4175.7	4179.1	4303.5	4376.4	4421.2
20°	4114.1	4119.7	4271.0	4330.4	4370.8
22.5°	4034.5	4053.5	4208.2	4257.6	4289.0
25°	3943.7	3974.0	4123.0	4157.8	4183.6
27.5°	3846.2	3876.4	4017.7	4035.6	4050.2
30°	3725.1	3767.7	3887.6	3889.9	3900.0
32.5°	3601.8	3639.9	3731.8	3721.7	3724.0
35°	3460.5	3487.4	3558.1	3528.9	3515.5
37.5°	3298.0	3312.6	3357.4	3313.7	3311.4
40°	3108.5	3127.6	3127.6	3067.1	3078.3
42.5°	2906.8	2913.5	2885.5	2828.3	2837.3
45°	2673.6	2689.3	2645.6	2604.1	2591.8
47.5°	2442.7	2458.4	2412.4	2364.2	2342.9
50°	2225.2	2217.3	2189.3	2107.5	2077.2
52.5°	1999.9	1975.2	1964.0	1844.0	1809.3
55°	1783.5	1738.7	1717.4	1595.2	1567.2
57.5°	1582.9	1502.1	1461.8	1366.5	1355.3
60°	1378.8	1288.0	1238.7	1177.1	1179.3
62.5°	1193.9	1098.6	1039.2	1021.2	1029.1
65°	1026.8	932.7	869.9	893.4	904.6
67.5°	875.5	798.2	727.5	782.5	793.7
70°	743.2	681.6	610.9	691.7	697.3
72.5°	633.4	582.9	523.5	599.7	612.1
75°	526.9	494.4	449.5	512.3	533.6
77.5°	433.8	408.0	382.3	420.4	443.9
80°	344.1	318.4	304.9	325.1	340.8
82.5°	243.3	226.4	213.0	227.6	235.4
85°	137.9	134.5	121.1	125.6	125.6
87.5°	31.4	35.9	40.4	37.0	31.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)