

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-L850-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-L850-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

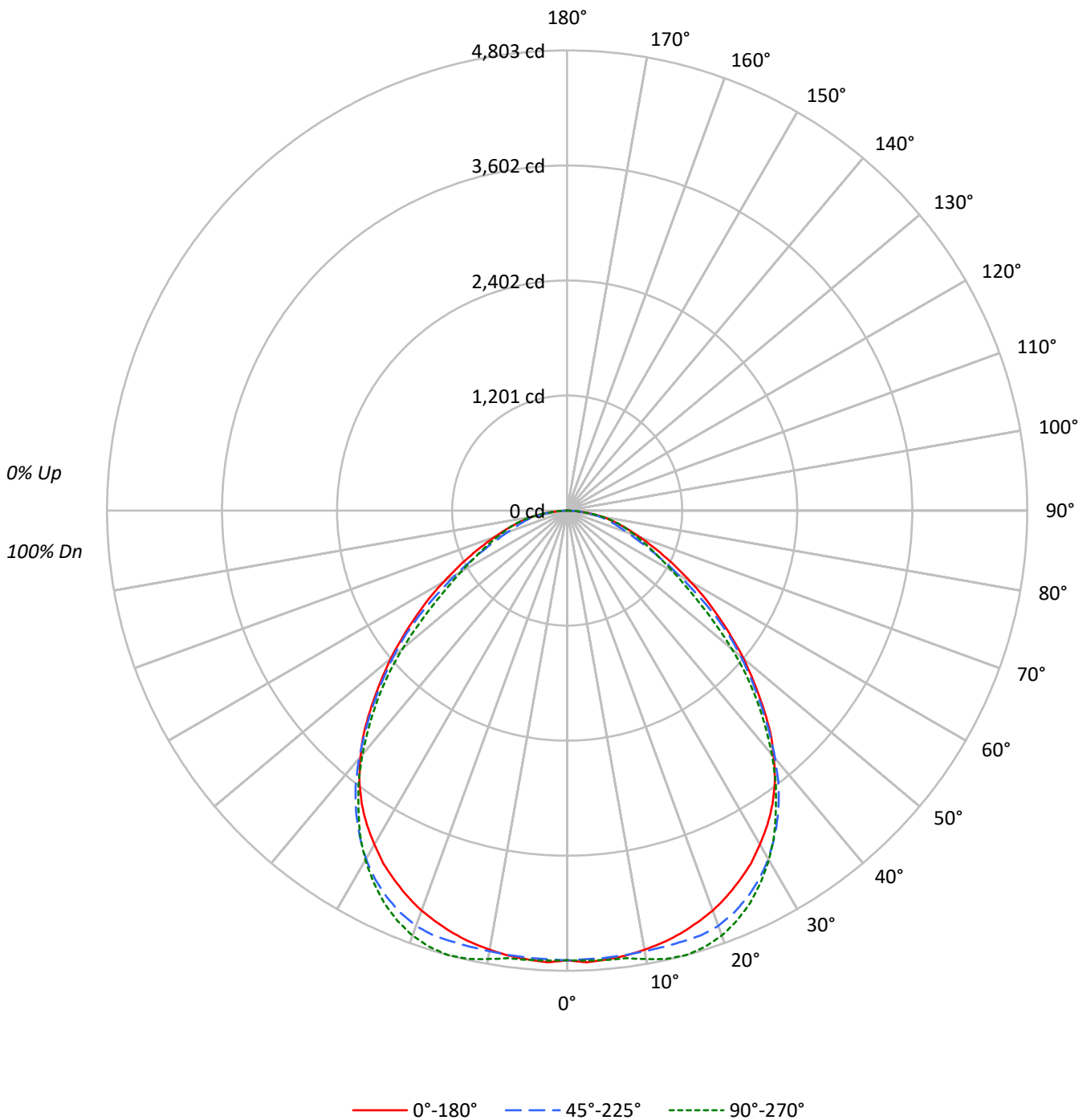
Lumens per Lamp: N/A
Luminaire Lumens: 11706.0 lumens
Efficiency: N/A
Efficacy: 161.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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



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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	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°	6315	6315	6315
5°	6353	6326	6358
10°	6358	6380	6494
15°	6366	6486	6690
20°	6362	6605	6759
25°	6323	6611	6708
30°	6250	6523	6544
35°	6139	6312	6236
40°	5897	5933	5839
45°	5494	5437	5326
50°	5030	4949	4696
55°	4518	4351	3970
60°	4007	3600	3427
65°	3531	2991	3110
70°	3158	2596	2962
75°	2958	2524	2996
80°	2880	2552	2851
85°	2299	2019	2093



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.1	3.8
10°-20°	1317.1	11.3
20°-30°	2026.1	17.3
30°-40°	2364.6	20.2
40°-50°	2197.3	18.8
50°-60°	1628.7	13.9
60°-70°	995.7	8.5
70°-80°	567.1	4.8
80°-90°	162.2	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°	3790.3	32.4
0°-40°	6154.9	52.6
0°-60°	9981.0	85.3
0°-90°	11706.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11706.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4694	4694	4694	4694	4694	
5°	4704	4682	4684	4680	4707	447
15°	4570	4568	4656	4748	4803	1290
25°	4259	4292	4453	4490	4518	1962
35°	3737	3766	3843	3811	3797	2329
45°	2887	2904	2857	2812	2799	2225
55°	1926	1878	1855	1723	1692	1729
65°	1109	1007	940	965	977	1110
75°	569	534	486	553	576	609
85°	149	145	131	136	136	172
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4693.8	4693.8	4693.8	4693.8	4693.8
2.5°	4719.2	4692.6	4687.7	4676.8	4701.0
5°	4703.5	4681.7	4684.1	4680.5	4707.1
7.5°	4685.3	4669.6	4679.2	4678.0	4713.1
10°	4653.8	4645.3	4669.6	4696.2	4753.1
12.5°	4618.7	4610.2	4663.5	4731.3	4793.0
15°	4570.3	4567.9	4656.2	4748.2	4802.7
17.5°	4509.7	4513.4	4647.8	4726.5	4774.9
20°	4443.2	4449.2	4612.7	4676.8	4720.4
22.5°	4357.2	4377.8	4544.9	4598.1	4632.0
25°	4259.1	4291.8	4452.8	4490.4	4518.2
27.5°	4153.8	4186.5	4339.0	4358.4	4374.2
30°	4023.1	4069.1	4198.6	4201.0	4211.9
32.5°	3889.9	3931.0	4030.3	4019.4	4021.8
35°	3737.3	3766.4	3842.7	3811.2	3796.7
37.5°	3561.8	3577.5	3626.0	3578.7	3576.3
40°	3357.2	3377.8	3377.8	3312.4	3324.5
42.5°	3139.3	3146.5	3116.3	3054.5	3064.2
45°	2887.4	2904.4	2857.2	2812.4	2799.1
47.5°	2638.1	2655.0	2605.4	2553.3	2530.3
50°	2403.2	2394.7	2364.4	2276.1	2243.4
52.5°	2159.8	2133.2	2121.1	1991.6	1954.0
55°	1926.2	1877.7	1854.7	1722.8	1692.5
57.5°	1709.5	1622.3	1578.7	1475.8	1463.7
60°	1489.1	1391.1	1337.8	1271.2	1273.6
62.5°	1289.4	1186.5	1122.3	1102.9	1111.4
65°	1109.0	1007.3	939.5	964.9	977.0
67.5°	945.5	862.0	785.7	845.0	857.2
70°	802.7	736.1	659.8	747.0	753.0
72.5°	684.0	629.5	565.4	647.7	661.0
75°	569.0	533.9	485.5	553.3	576.3
77.5°	468.5	440.7	412.8	454.0	479.4
80°	371.7	343.8	329.3	351.1	368.0
82.5°	262.7	244.6	230.0	245.8	254.2
85°	148.9	145.3	130.8	135.6	135.6
87.5°	33.9	38.7	43.6	40.0	33.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)