

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-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 (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-L850-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

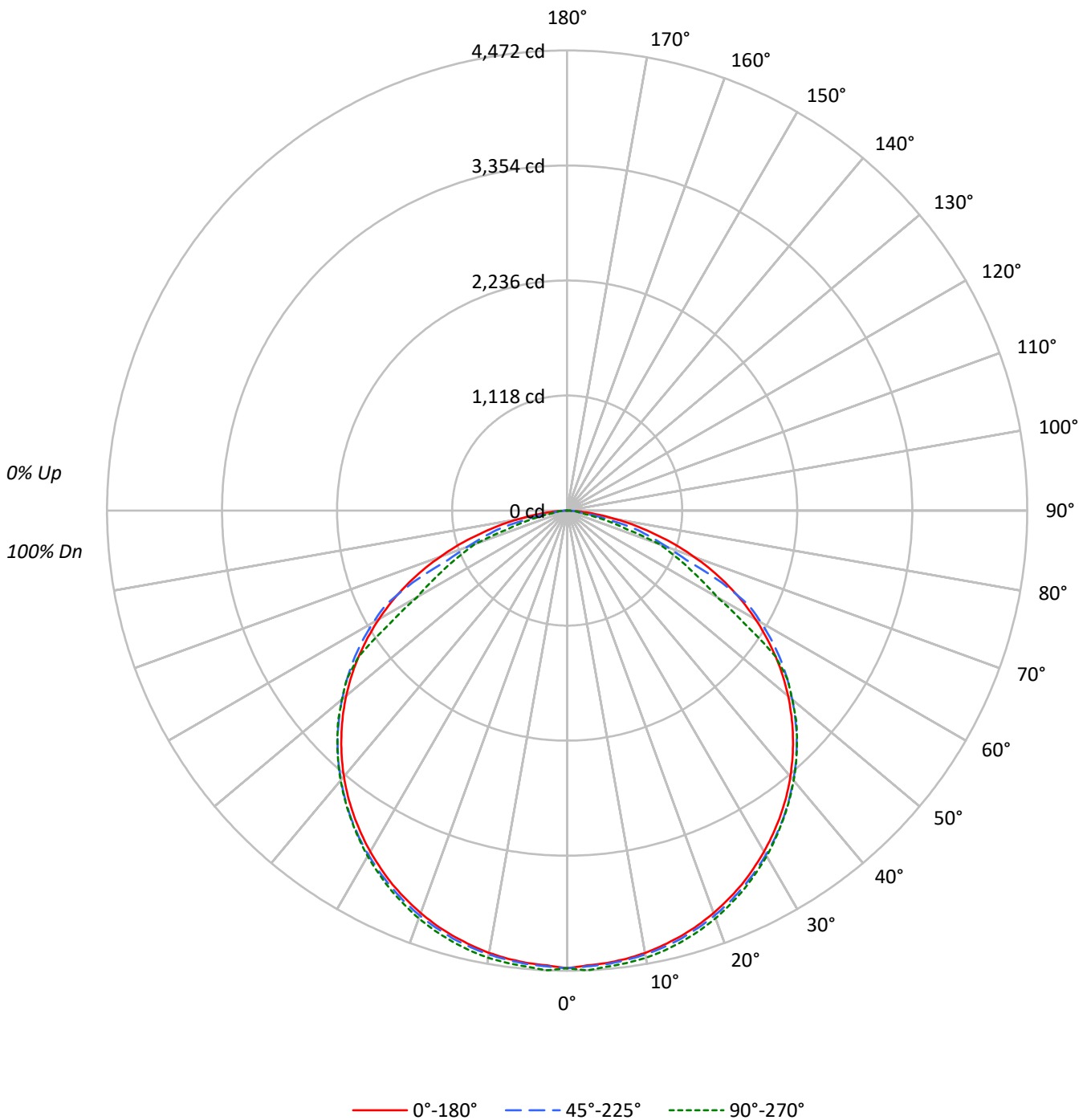
Lumens per Lamp: N/A
Luminaire Lumens: 12841.0 lumens
Efficiency: N/A
Efficacy: 176.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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-L850-ED1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-12HE-W-UNV-L850-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°	5985	5985	5985
5°	5960	5977	6010
10°	5963	5985	6030
15°	5962	5994	6035
20°	5959	5997	6039
25°	5957	5999	6033
30°	5946	6004	6027
35°	5939	6007	6015
40°	5928	6007	6016
45°	5906	6004	6011
50°	5870	5979	5978
55°	5802	5947	5799
60°	5694	5859	4538
65°	5504	5273	4088
70°	5157	4057	3768
75°	4566	3538	2348
80°	3760	2083	1050
85°	2478	1277	1376



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-12HE-W-UNV-L850-ED1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.1	3.3
10°-20°	1217.8	9.5
20°-30°	1867.0	14.5
30°-40°	2289.7	17.8
40°-50°	2431.3	18.9
50°-60°	2220.6	17.3
60°-70°	1546.5	12.0
70°-80°	721.3	5.6
80°-90°	124.8	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°	3506.9	27.3
0°-40°	5796.5	45.1
0°-60°	10448.5	81.4
0°-90°	12841.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12841.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4448	4448	4448	4448	4448	
5°	4413	4444	4425	4446	4450	420
15°	4280	4310	4303	4329	4333	1209
25°	4012	4048	4041	4071	4064	1849
35°	3616	3657	3657	3682	3662	2263
45°	3104	3151	3155	3176	3159	2394
55°	2473	2523	2535	2539	2472	2209
65°	1729	1782	1656	1317	1284	1706
75°	878	934	680	471	452	939
85°	160	106	83	88	89	207
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-12HE-W-UNV-L850-ED1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4448.0	4448.0	4448.0	4448.0	4448.0
2.5°	4424.5	4452.8	4434.1	4454.4	4471.5
5°	4412.8	4443.7	4425.1	4446.4	4450.1
7.5°	4393.6	4422.9	4405.9	4429.3	4435.2
10°	4364.8	4393.6	4380.3	4408.0	4413.3
12.5°	4325.9	4355.2	4345.1	4375.5	4379.2
15°	4280.0	4309.9	4303.0	4329.1	4332.8
17.5°	4226.2	4257.1	4249.1	4276.8	4279.5
20°	4161.6	4195.2	4188.3	4220.8	4217.6
22.5°	4089.1	4124.8	4119.5	4152.0	4142.4
25°	4012.3	4047.5	4041.1	4071.0	4063.5
27.5°	3922.2	3961.1	3955.3	3984.1	3972.3
30°	3827.3	3866.7	3864.6	3890.7	3879.0
32.5°	3724.9	3767.0	3764.9	3790.5	3772.4
35°	3615.6	3657.2	3657.2	3681.7	3662.0
37.5°	3499.9	3542.0	3542.5	3566.0	3547.3
40°	3375.1	3417.2	3419.9	3442.3	3425.2
42.5°	3243.9	3289.7	3291.9	3312.1	3296.1
45°	3103.6	3150.6	3155.4	3175.6	3159.1
47.5°	2957.0	3004.4	3008.7	3030.6	3018.8
50°	2804.5	2850.3	2856.2	2874.3	2855.7
52.5°	2643.4	2690.3	2698.3	2709.5	2701.0
55°	2473.3	2522.9	2535.2	2539.4	2472.2
57.5°	2297.3	2348.0	2359.7	2261.6	2045.6
60°	2116.0	2166.1	2177.3	1839.8	1686.2
62.5°	1927.2	1976.3	1988.6	1524.6	1475.6
65°	1728.9	1782.2	1656.3	1317.2	1284.1
67.5°	1525.2	1580.1	1252.7	1128.9	1109.2
70°	1310.8	1366.2	1031.3	962.6	957.8
72.5°	1104.9	1146.0	846.3	729.5	614.3
75°	878.3	933.8	680.5	471.4	451.7
77.5°	681.0	588.7	410.6	345.6	272.5
80°	485.3	393.6	268.8	143.4	135.5
82.5°	307.7	257.0	105.6	108.3	113.1
85°	160.5	105.6	82.7	88.5	89.1
87.5°	51.7	45.3	49.6	49.1	48.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)