

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-LD5-12SE-W-CLI-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 (P23766)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12SE-W-CLI-UNV-L840-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

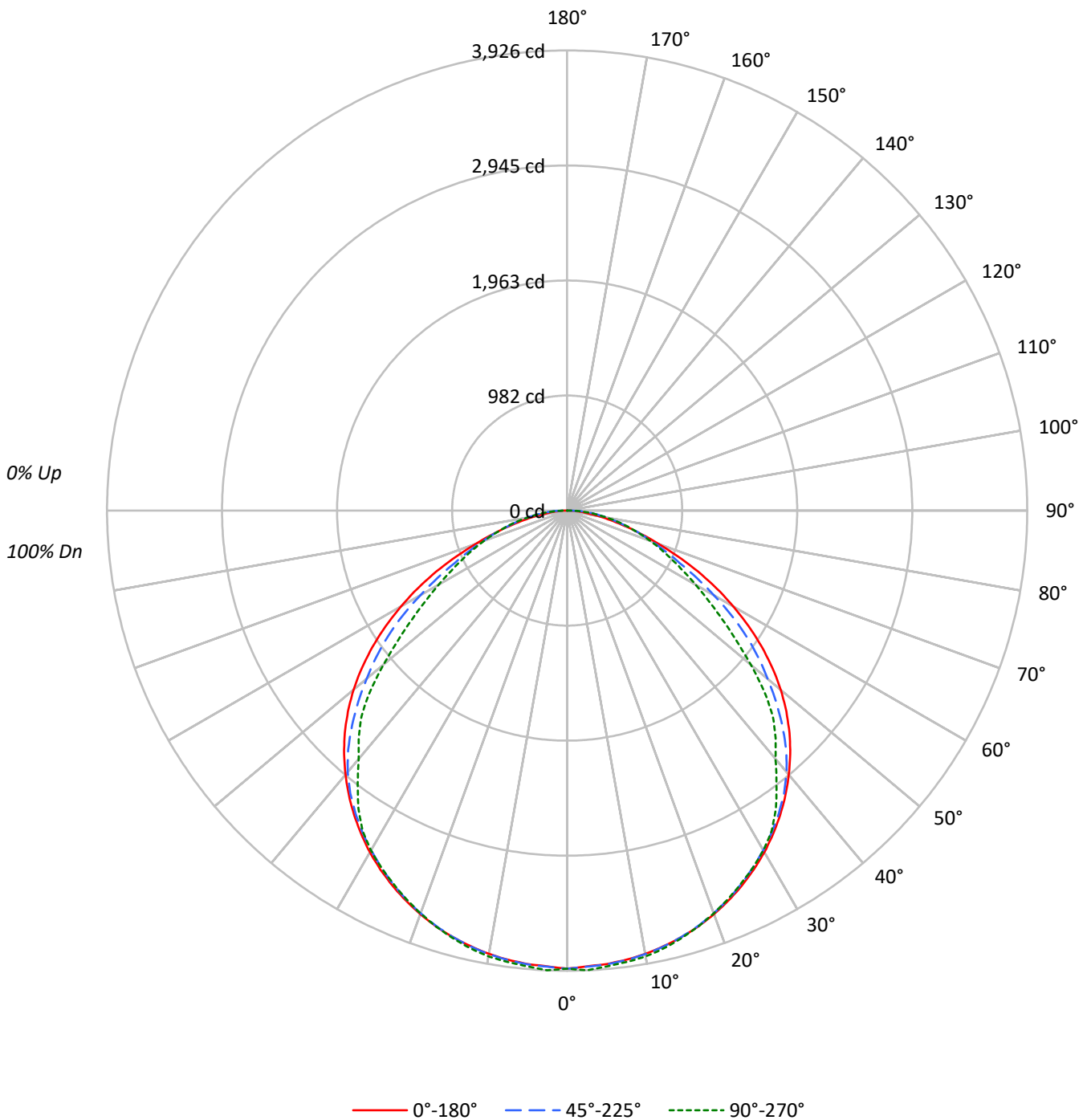
Lumens per Lamp: N/A
Luminaire Lumens: 10500.0 lumens
Efficiency: N/A
Efficacy: 137.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 76.6
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-LD5-12SE-W-CLI-UNV-L840-ED1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-12SE-W-CLI-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	90		91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80	77	74	71
3	91	81	73	67	89	79	72	66	77	70	65		74	68	64		71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56		66	60	55		64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48		59	53	48		58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43		54	47	42		52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38		49	42	37		48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34		45	38	34		44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30		41	35	30		40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28		38	32	28		38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5258	5258	5258
5°	5244	5248	5272
10°	5247	5250	5277
15°	5248	5247	5260
20°	5247	5234	5236
25°	5239	5219	5213
30°	5230	5199	5202
35°	5206	5173	5100
40°	5168	5116	4858
45°	5103	4940	4724
50°	4980	4677	4278
55°	4753	4374	3783
60°	4411	3902	3411
65°	3921	3379	3137
70°	3254	3020	2957
75°	2632	2764	2797
80°	2091	2643	2632
85°	1636	2839	2709



TEST NUMBER: P#

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.6	3.5
10°-20°	1066.1	10.2
20°-30°	1625.6	15.5
30°-40°	1966.7	18.7
40°-50°	1992.1	19.0
50°-60°	1646.5	15.7
60°-70°	1087.5	10.4
70°-80°	567.1	5.4
80°-90°	177.8	1.7
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°	3062.3	29.2
0°-40°	5029.0	47.9
0°-60°	8667.7	82.5
0°-90°	10500.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10500.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3908	3908	3908	3908	3908	
5°	3883	3906	3886	3902	3903	369
15°	3767	3787	3767	3779	3776	1064
25°	3529	3543	3516	3524	3511	1627
35°	3169	3173	3150	3145	3105	1982
45°	2682	2675	2596	2515	2482	2065
55°	2026	1996	1864	1683	1612	1806
65°	1232	1196	1061	992	985	1216
75°	506	515	532	539	538	551
85°	106	136	184	182	176	129
90°	0	0	0	0	0	



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3908.2	3908.2	3908.2	3908.2	3908.2
2.5°	3891.7	3914.7	3895.5	3912.4	3926.0
5°	3882.8	3906.3	3885.6	3902.5	3903.0
7.5°	3865.5	3888.9	3867.8	3884.7	3884.2
10°	3840.6	3862.7	3842.5	3862.7	3862.7
12.5°	3806.8	3828.4	3808.7	3827.5	3824.6
15°	3767.4	3786.6	3766.9	3778.7	3775.9
17.5°	3721.0	3738.3	3716.3	3726.1	3720.5
20°	3664.2	3680.1	3655.7	3668.4	3656.7
22.5°	3600.4	3615.4	3590.5	3599.9	3586.8
25°	3528.6	3542.7	3515.5	3524.4	3511.2
27.5°	3451.2	3463.9	3433.4	3444.2	3433.8
30°	3366.3	3372.4	3346.1	3360.2	3348.0
32.5°	3271.5	3275.3	3252.3	3264.9	3244.3
35°	3169.2	3173.4	3149.5	3145.3	3104.9
37.5°	3059.9	3061.8	3039.3	3001.3	2934.6
40°	2942.6	2941.7	2912.6	2824.9	2765.7
42.5°	2817.3	2816.9	2765.7	2665.8	2632.0
45°	2681.8	2674.7	2595.9	2515.2	2482.4
47.5°	2536.3	2528.8	2418.6	2354.3	2279.7
50°	2379.1	2366.0	2234.2	2146.4	2043.7
52.5°	2209.8	2189.6	2055.4	1913.7	1816.6
55°	2026.3	1996.3	1864.5	1683.4	1612.5
57.5°	1835.4	1790.8	1662.7	1486.3	1428.6
60°	1639.3	1589.5	1450.2	1305.2	1267.7
62.5°	1437.5	1388.3	1246.1	1136.8	1116.1
65°	1231.6	1195.9	1061.3	992.3	985.3
67.5°	1020.4	1007.8	905.0	869.8	867.0
70°	827.1	824.8	767.6	749.7	751.6
72.5°	661.1	658.2	649.8	640.9	641.4
75°	506.2	515.1	531.6	538.6	538.1
77.5°	377.7	396.0	430.7	444.8	442.4
80°	269.8	297.0	341.1	354.2	339.7
82.5°	179.7	208.3	260.4	262.3	250.5
85°	106.0	136.5	183.9	182.5	175.5
87.5°	52.5	82.1	110.3	105.6	100.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)