

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-L835-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-L835-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

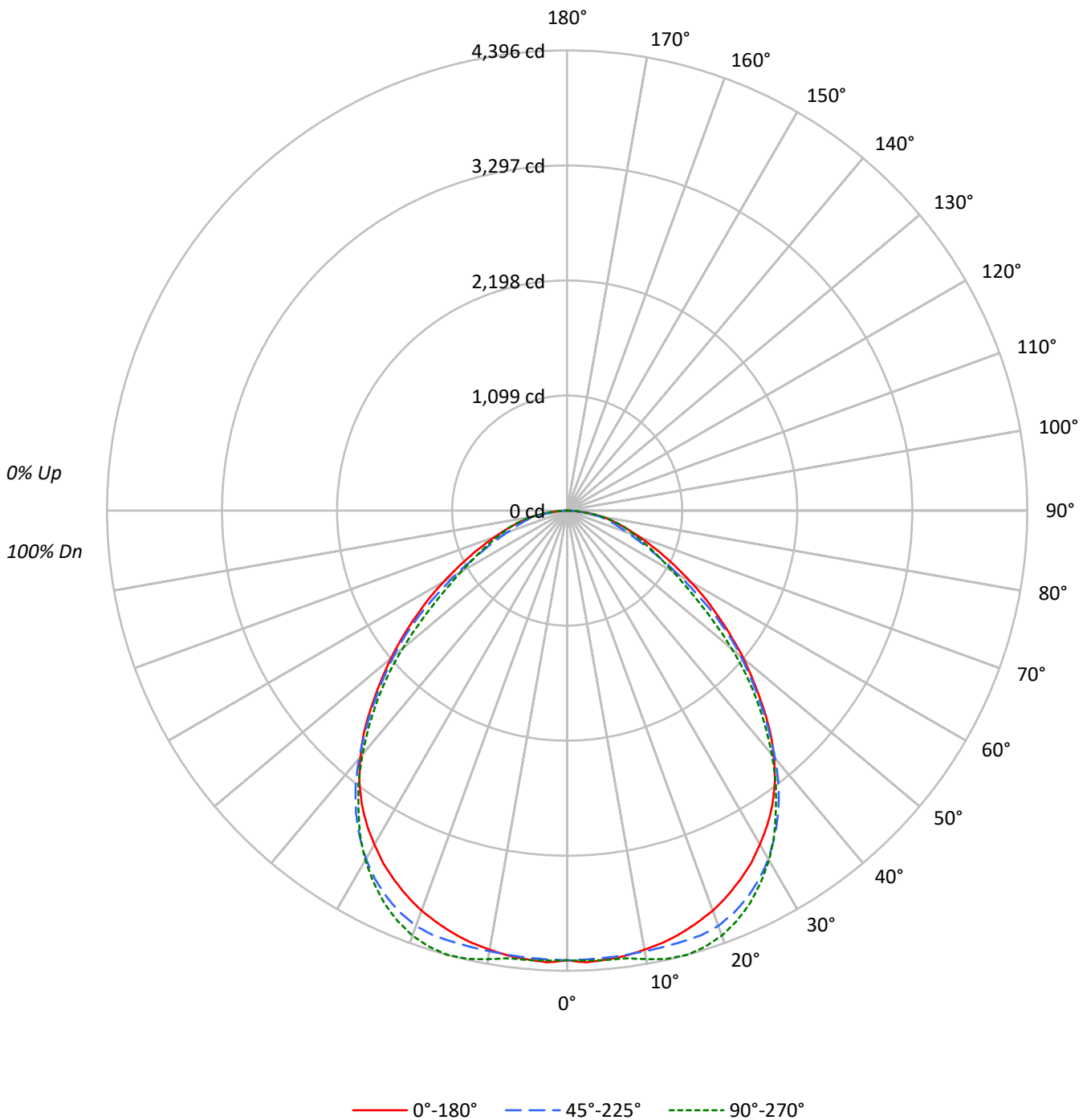
Lumens per Lamp: N/A
Luminaire Lumens: 10715.0 lumens
Efficiency: N/A
Efficacy: 147.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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-L835-ED1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-12HE-W-CLWG-UNV-L835-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°	5781	5781	5781
5°	5815	5791	5819
10°	5820	5840	5944
15°	5827	5937	6124
20°	5823	6046	6187
25°	5788	6051	6140
30°	5721	5971	5990
35°	5619	5777	5708
40°	5397	5430	5345
45°	5029	4976	4875
50°	4604	4530	4298
55°	4136	3982	3634
60°	3668	3295	3137
65°	3232	2738	2847
70°	2890	2376	2712
75°	2707	2310	2742
80°	2636	2335	2610
85°	2104	1848	1916



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-12HE-W-CLWG-UNV-L835-ED1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	409.3	3.8
10°-20°	1205.6	11.3
20°-30°	1854.6	17.3
30°-40°	2164.4	20.2
40°-50°	2011.3	18.8
50°-60°	1490.9	13.9
60°-70°	911.4	8.5
70°-80°	519.1	4.8
80°-90°	148.5	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°	3469.4	32.4
0°-40°	5633.9	52.6
0°-60°	9136.0	85.3
0°-90°	10715.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10715.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4296	4296	4296	4296	4296	
5°	4305	4285	4288	4284	4309	410
15°	4183	4181	4262	4346	4396	1181
25°	3899	3928	4076	4110	4136	1796
35°	3421	3448	3517	3488	3475	2132
45°	2643	2658	2615	2574	2562	2037
55°	1763	1719	1698	1577	1549	1582
65°	1015	922	860	883	894	1016
75°	521	489	444	506	528	557
85°	136	133	120	124	124	157
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-12HE-W-CLWG-UNV-L835-ED1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4296.4	4296.4	4296.4	4296.4	4296.4
2.5°	4319.7	4295.3	4290.9	4280.9	4303.1
5°	4305.3	4285.3	4287.5	4284.2	4308.6
7.5°	4288.6	4274.2	4283.1	4282.0	4314.1
10°	4259.8	4252.1	4274.2	4298.6	4350.7
12.5°	4227.7	4219.9	4268.7	4330.8	4387.3
15°	4183.4	4181.2	4262.1	4346.3	4396.1
17.5°	4128.0	4131.3	4254.3	4326.3	4370.7
20°	4067.0	4072.6	4222.2	4280.9	4320.8
22.5°	3988.3	4007.2	4160.1	4208.9	4239.9
25°	3898.6	3928.5	4075.9	4110.2	4135.7
27.5°	3802.2	3832.1	3971.7	3989.4	4003.8
30°	3682.5	3724.6	3843.2	3845.4	3855.4
32.5°	3560.6	3598.3	3689.1	3679.2	3681.4
35°	3420.9	3447.5	3517.4	3488.5	3475.2
37.5°	3260.3	3274.7	3319.0	3275.8	3273.6
40°	3073.0	3091.8	3091.8	3032.0	3043.1
42.5°	2873.5	2880.2	2852.5	2795.9	2804.8
45°	2643.0	2658.5	2615.3	2574.3	2562.1
47.5°	2414.7	2430.2	2384.8	2337.1	2316.1
50°	2199.7	2192.0	2164.3	2083.4	2053.5
52.5°	1977.0	1952.6	1941.5	1823.0	1788.6
55°	1763.1	1718.8	1697.7	1576.9	1549.2
57.5°	1564.7	1485.0	1445.1	1350.9	1339.8
60°	1363.1	1273.3	1224.5	1163.6	1165.8
62.5°	1180.2	1086.0	1027.3	1009.6	1017.3
65°	1015.1	922.0	859.9	883.2	894.3
67.5°	865.5	789.0	719.2	773.5	784.6
70°	734.7	673.8	604.0	683.7	689.3
72.5°	626.1	576.3	517.5	592.9	605.1
75°	520.8	488.7	444.4	506.4	527.5
77.5°	428.9	403.4	377.9	415.6	438.8
80°	340.2	314.7	301.4	321.4	336.9
82.5°	240.5	223.9	210.6	225.0	232.7
85°	136.3	133.0	119.7	124.1	124.1
87.5°	31.0	35.5	39.9	36.6	31.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)