

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-L735-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-L735-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

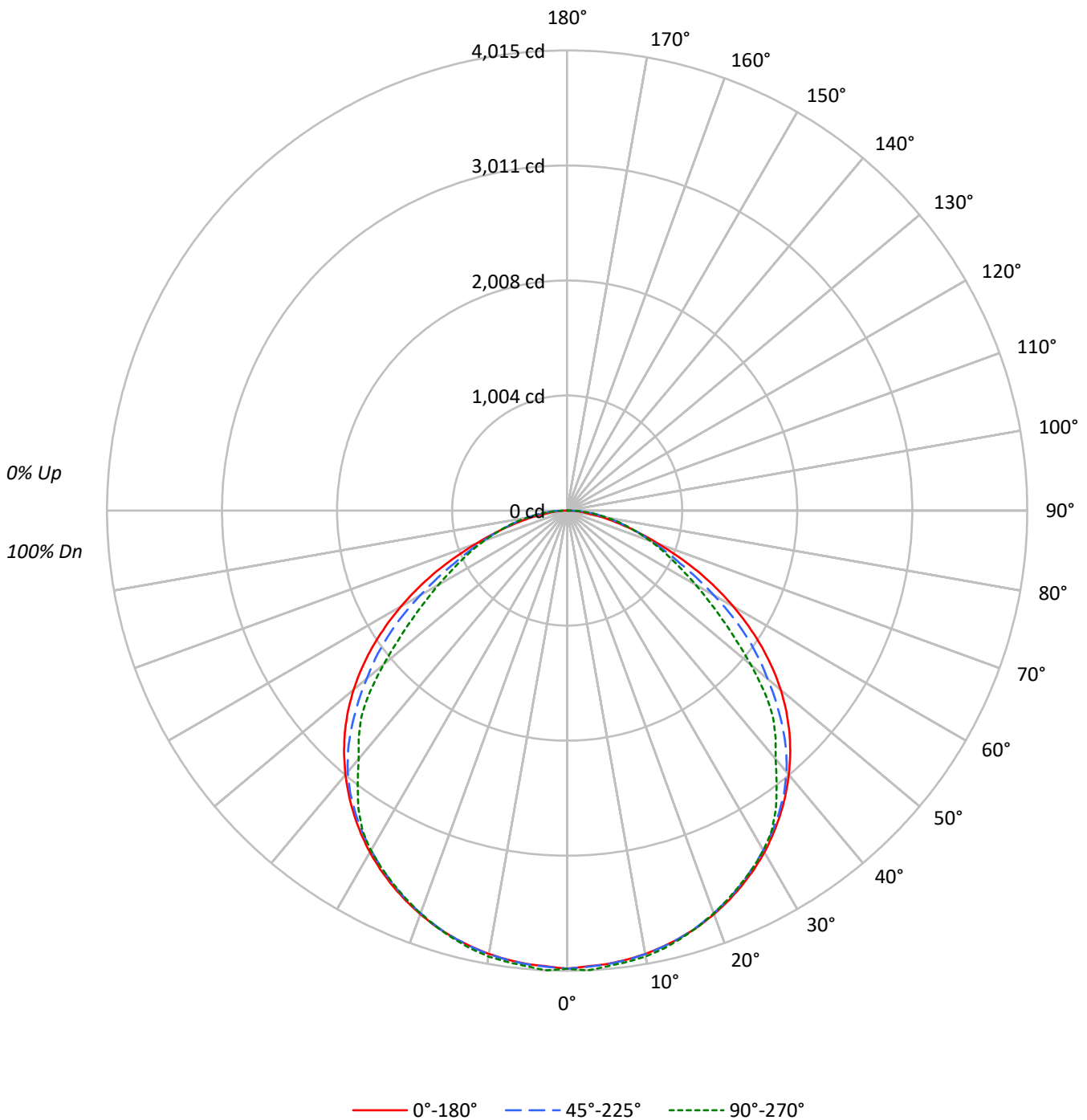
Lumens per Lamp: N/A
Luminaire Lumens: 10739.0 lumens
Efficiency: N/A
Efficacy: 140.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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-L735-ED1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-12SE-W-CLI-UNV-L735-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	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					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°	5378	5378	5378
5°	5364	5368	5391
10°	5367	5369	5397
15°	5367	5367	5379
20°	5366	5354	5355
25°	5358	5338	5331
30°	5349	5317	5320
35°	5324	5291	5216
40°	5286	5232	4968
45°	5219	5052	4831
50°	5093	4783	4375
55°	4862	4473	3869
60°	4512	3991	3489
65°	4010	3456	3208
70°	3328	3088	3024
75°	2692	2826	2861
80°	2138	2703	2692
85°	1673	2904	2771



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-12SE-W-CLI-UNV-L735-ED1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.1	3.5
10°-20°	1090.3	10.2
20°-30°	1662.6	15.5
30°-40°	2011.5	18.7
40°-50°	2037.5	19.0
50°-60°	1684.0	15.7
60°-70°	1112.3	10.4
70°-80°	580.0	5.4
80°-90°	181.8	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°	3132.0	29.2
0°-40°	5143.5	47.9
0°-60°	8865.0	82.5
0°-90°	10739.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10739.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3997	3997	3997	3997	3997	
5°	3971	3995	3974	3991	3992	378
15°	3853	3873	3853	3865	3862	1088
25°	3609	3623	3596	3605	3591	1664
35°	3241	3246	3221	3217	3176	2027
45°	2743	2736	2655	2572	2539	2112
55°	2072	2042	1907	1722	1649	1847
65°	1260	1223	1085	1015	1008	1244
75°	518	527	544	551	550	564
85°	108	140	188	187	180	132
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-12SE-W-CLI-UNV-L735-ED1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3997.1	3997.1	3997.1	3997.1	3997.1
2.5°	3980.3	4003.8	3984.2	4001.4	4015.4
5°	3971.2	3995.2	3974.1	3991.4	3991.8
7.5°	3953.5	3977.4	3955.8	3973.1	3972.6
10°	3928.0	3950.6	3929.9	3950.6	3950.6
12.5°	3893.5	3915.5	3895.4	3914.6	3911.7
15°	3853.2	3872.8	3852.7	3864.7	3861.8
17.5°	3805.7	3823.4	3800.9	3810.9	3805.2
20°	3747.6	3763.9	3739.0	3751.9	3739.9
22.5°	3682.3	3697.7	3672.3	3681.9	3668.4
25°	3608.9	3623.3	3595.5	3604.6	3591.2
27.5°	3529.7	3542.7	3511.5	3522.5	3512.0
30°	3442.9	3449.1	3422.3	3436.7	3424.2
32.5°	3346.0	3349.8	3326.3	3339.2	3318.1
35°	3241.4	3245.7	3221.2	3216.9	3175.6
37.5°	3129.6	3131.5	3108.4	3069.6	3001.4
40°	3009.6	3008.6	2978.9	2889.2	2828.7
42.5°	2881.5	2881.0	2828.7	2726.5	2691.9
45°	2742.8	2735.6	2655.0	2572.5	2538.9
47.5°	2594.0	2586.4	2473.6	2407.9	2331.6
50°	2433.3	2419.9	2285.0	2195.3	2090.2
52.5°	2260.1	2239.4	2102.2	1957.3	1858.0
55°	2072.5	2041.7	1906.9	1721.7	1649.2
57.5°	1877.2	1831.6	1700.6	1520.2	1461.1
60°	1676.6	1625.7	1483.2	1334.9	1296.5
62.5°	1470.2	1419.9	1274.5	1162.7	1141.6
65°	1259.6	1223.1	1085.4	1014.9	1007.7
67.5°	1043.7	1030.7	925.6	889.6	886.8
70°	846.0	843.6	785.0	766.8	768.7
72.5°	676.1	673.2	664.6	655.5	655.9
75°	517.8	526.9	543.7	550.9	550.4
77.5°	386.3	405.0	440.5	454.9	452.5
80°	275.9	303.7	348.8	362.3	347.4
82.5°	183.8	213.1	266.3	268.2	256.2
85°	108.4	139.6	188.1	186.7	179.5
87.5°	53.7	84.0	112.8	108.0	103.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)