

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-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 (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-L735-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: 11086.0 lumens
Efficiency: N/A
Efficacy: 152.7 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

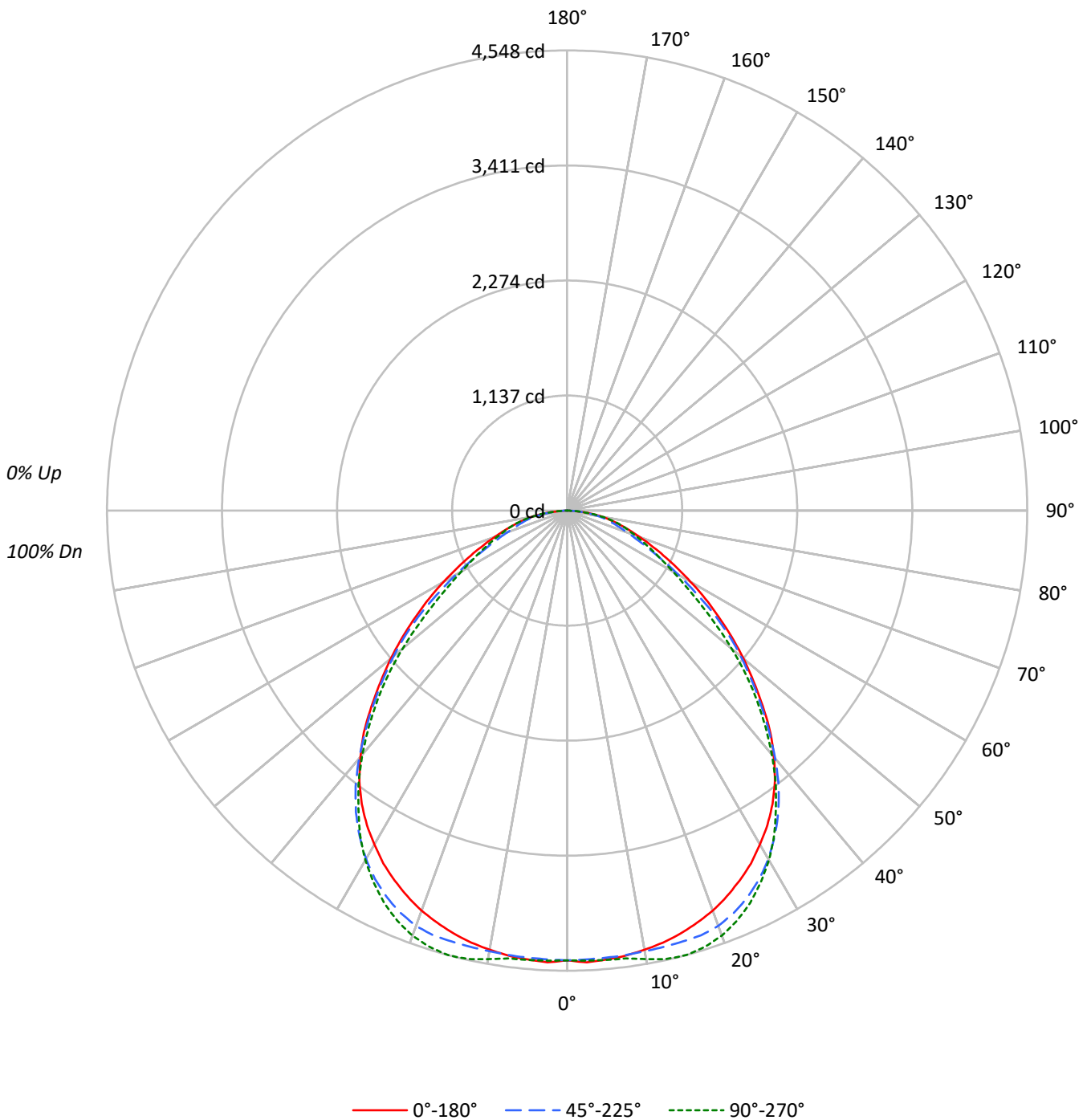
Input Watts (W): 72.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-12HE-W-CLWG-UNV-L735-ED1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-12HE-W-CLWG-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	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°	5981	5981	5981
5°	6016	5991	6021
10°	6021	6042	6150
15°	6029	6142	6336
20°	6025	6255	6401
25°	5988	6260	6352
30°	5919	6178	6197
35°	5814	5977	5906
40°	5584	5619	5530
45°	5203	5149	5044
50°	4764	4687	4447
55°	4279	4120	3760
60°	3795	3409	3246
65°	3344	2833	2946
70°	2991	2458	2806
75°	2802	2390	2837
80°	2727	2417	2701
85°	2177	1911	1982



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-12HE-W-CLWG-UNV-L735-ED1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.4	3.8
10°-20°	1247.3	11.3
20°-30°	1918.8	17.3
30°-40°	2239.4	20.2
40°-50°	2081.0	18.8
50°-60°	1542.5	13.9
60°-70°	942.9	8.5
70°-80°	537.1	4.8
80°-90°	153.6	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°	3589.5	32.4
0°-40°	5828.9	52.6
0°-60°	9452.3	85.3
0°-90°	11086.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11086.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4445	4445	4445	4445	4445	
5°	4454	4434	4436	4433	4458	424
15°	4328	4326	4410	4497	4548	1222
25°	4034	4064	4217	4252	4279	1858
35°	3539	3567	3639	3609	3596	2205
45°	2734	2751	2706	2663	2651	2107
55°	1824	1778	1756	1632	1603	1637
65°	1050	954	890	914	925	1051
75°	539	506	460	524	546	577
85°	141	138	124	128	128	163
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-12HE-W-CLWG-UNV-L735-ED1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4445.2	4445.2	4445.2	4445.2	4445.2
2.5°	4469.2	4444.0	4439.4	4429.1	4452.0
5°	4454.3	4433.7	4436.0	4432.6	4457.8
7.5°	4437.1	4422.2	4431.4	4430.3	4463.5
10°	4407.3	4399.3	4422.2	4447.5	4501.3
12.5°	4374.1	4366.1	4416.5	4480.7	4539.2
15°	4328.2	4325.9	4409.6	4496.8	4548.4
17.5°	4270.9	4274.3	4401.6	4476.1	4522.0
20°	4207.8	4213.6	4368.3	4429.1	4470.4
22.5°	4126.4	4145.9	4304.1	4354.6	4386.7
25°	4033.6	4064.5	4217.0	4252.5	4278.9
27.5°	3933.8	3964.8	4109.2	4127.6	4142.5
30°	3810.0	3853.5	3976.2	3978.5	3988.8
32.5°	3683.9	3722.8	3816.9	3806.5	3808.8
35°	3539.4	3566.9	3639.1	3609.3	3595.6
37.5°	3373.1	3388.0	3433.9	3389.2	3386.9
40°	3179.4	3198.9	3198.9	3137.0	3148.4
42.5°	2973.0	2979.9	2951.2	2892.7	2901.9
45°	2734.5	2750.6	2705.9	2663.4	2650.8
47.5°	2498.3	2514.4	2467.4	2418.1	2396.3
50°	2275.9	2267.9	2239.2	2155.5	2124.6
52.5°	2045.4	2020.2	2008.8	1886.1	1850.5
55°	1824.2	1778.3	1756.5	1631.5	1602.9
57.5°	1618.9	1536.4	1495.1	1397.6	1386.2
60°	1410.3	1317.4	1266.9	1203.9	1206.2
62.5°	1221.1	1123.6	1062.8	1044.5	1052.5
65°	1050.2	953.9	889.7	913.8	925.3
67.5°	895.5	816.3	744.1	800.3	811.8
70°	760.2	697.1	624.9	707.4	713.2
72.5°	647.8	596.2	535.4	613.4	626.0
75°	538.9	505.6	459.8	524.0	545.8
77.5°	443.7	417.3	391.0	430.0	454.0
80°	352.0	325.6	311.9	332.5	348.6
82.5°	248.8	231.6	217.8	232.7	240.8
85°	141.0	137.6	123.8	128.4	128.4
87.5°	32.1	36.7	41.3	37.8	32.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)