

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-AWG-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 (P23764)
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-AWG-UNV-L735-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

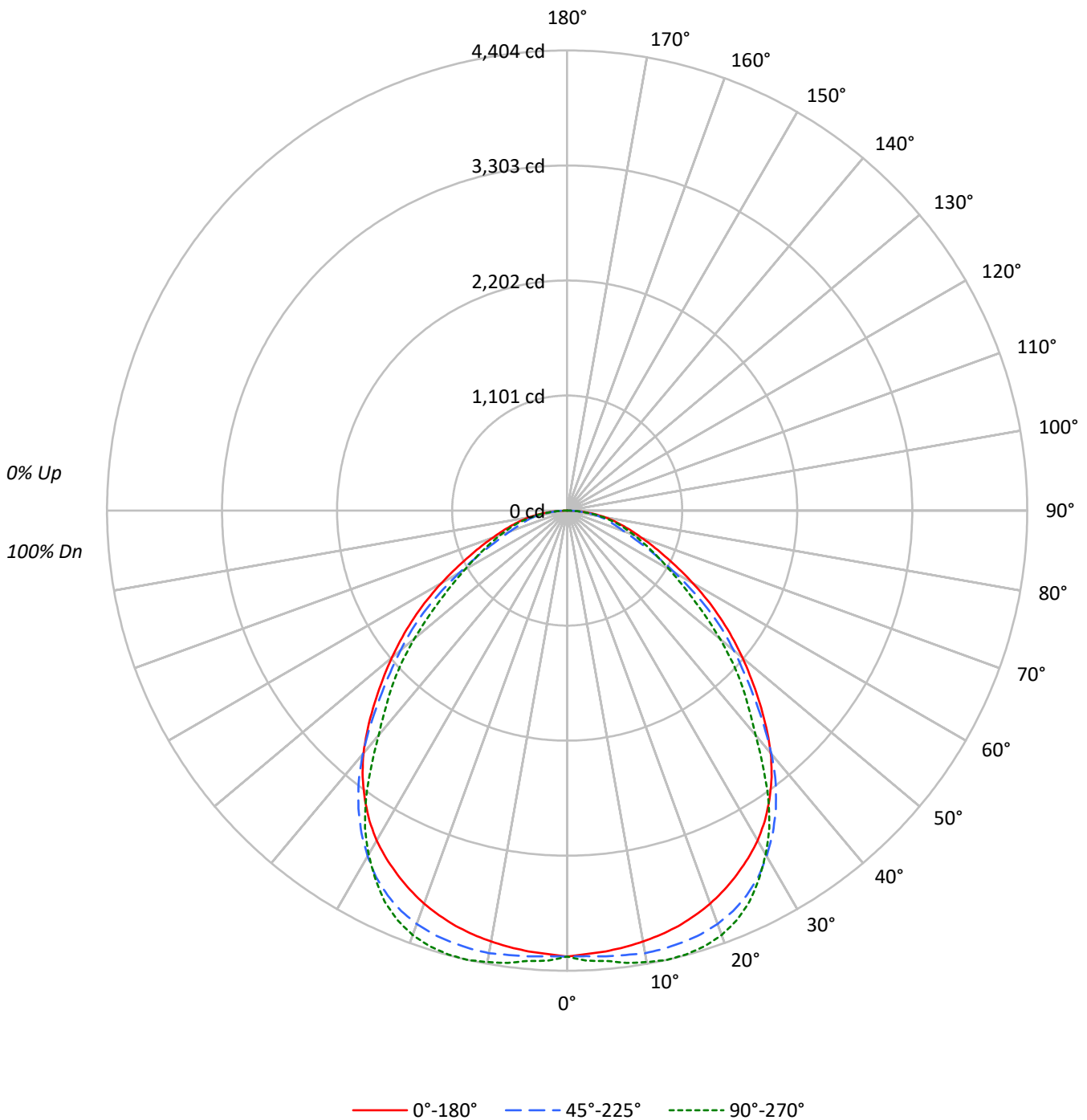
Lumens per Lamp: N/A
Luminaire Lumens: 10580.0 lumens
Efficiency: N/A
Efficacy: 145.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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



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Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-12HE-W-AWG-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	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	85	81	88	83	79	85	81	77	82	78	75	73					73			
3	92	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65	63					63			
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50	48					48			
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	54	49	44	42					42			
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38					38			
8	63	50	42	37	62	50	42	37	48	41	36	47	41	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31					31			
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5742	5742	5742
5°	5720	5784	5843
10°	5722	5877	5995
15°	5733	5959	6126
20°	5732	6027	6189
25°	5707	6035	6133
30°	5664	5934	5903
35°	5544	5719	5511
40°	5328	5343	4927
45°	4959	4817	4504
50°	4584	4356	3991
55°	4196	3860	3444
60°	3741	3204	3041
65°	3281	2637	2794
70°	2963	2271	2661
75°	2832	2227	2653
80°	2854	2357	2589
85°	2529	2160	2260



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.0	3.9
10°-20°	1208.2	11.4
20°-30°	1853.2	17.5
30°-40°	2131.4	20.1
40°-50°	1944.0	18.4
50°-60°	1457.1	13.8
60°-70°	896.3	8.5
70°-80°	513.6	4.9
80°-90°	166.3	1.6
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°	3471.3	32.8
0°-40°	5602.8	53.0
0°-60°	9003.9	85.1
0°-90°	10580.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10580.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4268	4268	4268	4268	4268	
5°	4235	4278	4283	4318	4326	403
15°	4116	4207	4278	4369	4398	1162
25°	3844	3954	4065	4128	4131	1771
35°	3376	3441	3482	3425	3355	2105
45°	2606	2663	2532	2401	2367	2011
55°	1789	1722	1646	1500	1468	1598
65°	1031	922	828	854	878	1036
75°	545	488	428	490	510	582
85°	164	154	140	148	146	183
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4267.9	4267.9	4267.9	4267.9	4267.9
2.5°	4247.8	4278.2	4268.4	4293.5	4312.0
5°	4235.2	4278.2	4282.6	4317.9	4326.1
7.5°	4214.0	4270.1	4289.7	4352.2	4366.4
10°	4187.9	4255.4	4301.6	4369.1	4388.1
12.5°	4156.3	4234.7	4293.5	4376.7	4403.9
15°	4115.5	4206.9	4277.7	4369.1	4397.9
17.5°	4063.8	4169.9	4252.6	4342.4	4372.4
20°	4002.9	4115.0	4209.1	4301.1	4322.3
22.5°	3929.4	4042.1	4149.3	4232.0	4243.4
25°	3844.0	3954.4	4064.9	4127.5	4130.8
27.5°	3750.9	3853.8	3957.2	3990.9	3976.2
30°	3645.9	3737.9	3819.5	3826.6	3799.4
32.5°	3521.3	3604.0	3662.2	3647.0	3601.3
35°	3375.5	3441.3	3482.1	3425.0	3355.3
37.5°	3215.5	3265.0	3278.6	3154.5	3075.1
40°	3033.2	3075.6	3041.9	2869.4	2805.2
42.5°	2823.1	2872.1	2785.6	2615.3	2576.1
45°	2606.0	2662.6	2531.5	2400.9	2367.1
47.5°	2393.2	2444.9	2296.4	2191.4	2141.3
50°	2189.7	2212.0	2080.9	1962.3	1906.8
52.5°	1989.5	1967.2	1874.1	1726.6	1677.7
55°	1788.7	1722.3	1645.6	1500.3	1468.2
57.5°	1587.3	1494.8	1411.0	1299.5	1286.9
60°	1390.3	1276.6	1190.6	1124.2	1130.2
62.5°	1202.6	1086.7	994.7	973.5	996.4
65°	1030.6	921.8	828.2	853.8	877.7
67.5°	887.5	783.1	687.8	753.1	772.2
70°	753.1	668.8	577.4	661.7	676.4
72.5°	645.9	574.1	494.6	576.8	589.3
75°	544.7	488.1	428.3	490.3	510.4
77.5°	456.6	409.8	368.9	405.4	427.2
80°	368.4	328.7	304.2	320.5	334.1
82.5°	269.9	244.3	226.4	233.4	235.6
85°	163.8	154.5	139.9	147.5	146.4
87.5°	53.9	61.5	64.8	58.2	55.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)