

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-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 (P23760)
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-UNV-L835-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

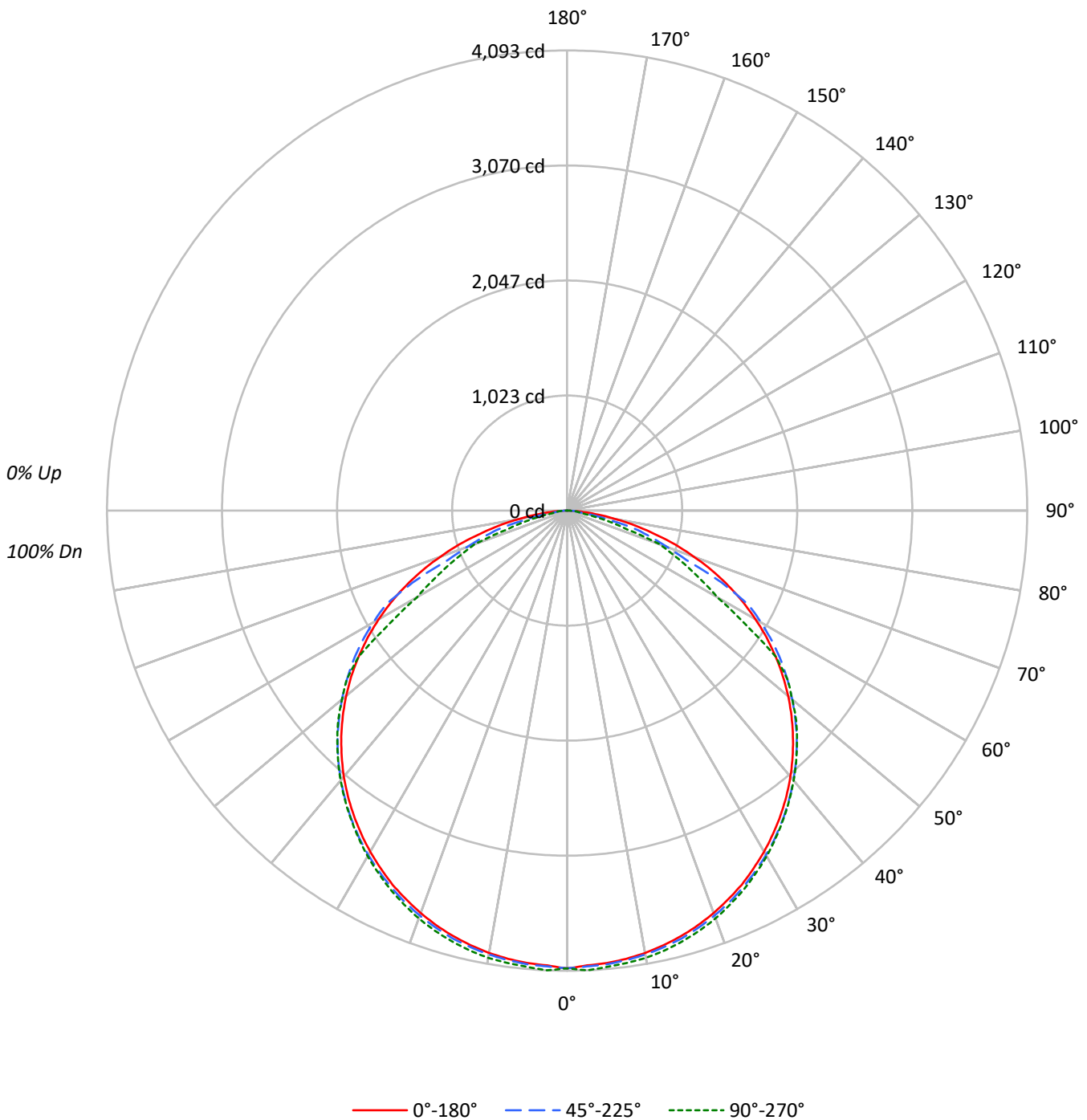
Lumens per Lamp: N/A
Luminaire Lumens: 11754.0 lumens
Efficiency: N/A
Efficacy: 161.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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





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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	89	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5478	5478	5478
5°	5456	5471	5502
10°	5459	5478	5519
15°	5457	5486	5524
20°	5454	5489	5528
25°	5452	5491	5522
30°	5443	5496	5516
35°	5436	5499	5506
40°	5426	5498	5507
45°	5406	5496	5502
50°	5373	5472	5471
55°	5311	5444	5309
60°	5212	5363	4154
65°	5038	4827	3742
70°	4720	3714	3449
75°	4179	3238	2149
80°	3442	1906	961
85°	2268	1169	1258



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.4	3.3
10°-20°	1114.7	9.5
20°-30°	1709.0	14.5
30°-40°	2095.9	17.8
40°-50°	2225.5	18.9
50°-60°	2032.7	17.3
60°-70°	1415.6	12.0
70°-80°	660.2	5.6
80°-90°	114.2	1.0
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°	3210.0	27.3
0°-40°	5305.9	45.1
0°-60°	9564.0	81.4
0°-90°	11754.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11754.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4072	4072	4072	4072	4072	
5°	4039	4068	4050	4070	4073	384
15°	3918	3945	3939	3963	3966	1106
25°	3673	3705	3699	3726	3720	1693
35°	3310	3348	3348	3370	3352	2071
45°	2841	2884	2888	2907	2892	2191
55°	2264	2309	2321	2324	2263	2022
65°	1582	1631	1516	1206	1175	1561
75°	804	855	623	432	413	859
85°	147	97	76	81	82	190
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4071.5	4071.5	4071.5	4071.5	4071.5
2.5°	4050.0	4075.9	4058.8	4077.3	4093.0
5°	4039.3	4067.6	4050.5	4070.0	4073.4
7.5°	4021.7	4048.5	4032.9	4054.4	4059.8
10°	3995.3	4021.7	4009.5	4034.9	4039.8
12.5°	3959.7	3986.5	3977.3	4005.1	4008.5
15°	3917.7	3945.1	3938.7	3962.6	3966.0
17.5°	3868.4	3896.7	3889.4	3914.8	3917.2
20°	3809.4	3840.1	3833.8	3863.5	3860.6
22.5°	3743.0	3775.7	3770.8	3800.6	3791.8
25°	3672.7	3704.9	3699.0	3726.4	3719.5
27.5°	3590.2	3625.8	3620.4	3646.8	3636.1
30°	3503.3	3539.4	3537.5	3561.4	3550.6
32.5°	3409.6	3448.1	3446.2	3469.6	3453.0
35°	3309.5	3347.6	3347.6	3370.0	3352.0
37.5°	3203.6	3242.1	3242.6	3264.1	3247.0
40°	3089.4	3127.9	3130.4	3150.9	3135.2
42.5°	2969.3	3011.3	3013.2	3031.8	3017.1
45°	2840.9	2883.9	2888.3	2906.8	2891.7
47.5°	2706.7	2750.1	2754.0	2774.0	2763.3
50°	2567.1	2609.0	2614.4	2631.0	2613.9
52.5°	2419.7	2462.6	2469.9	2480.2	2472.4
55°	2263.9	2309.3	2320.6	2324.5	2263.0
57.5°	2102.9	2149.2	2160.0	2070.2	1872.5
60°	1936.9	1982.8	1993.0	1684.0	1543.5
62.5°	1764.1	1809.0	1820.2	1395.6	1350.7
65°	1582.5	1631.3	1516.1	1205.7	1175.4
67.5°	1396.0	1446.3	1146.6	1033.4	1015.3
70°	1199.8	1250.6	944.0	881.1	876.7
72.5°	1011.4	1049.0	774.7	667.8	562.3
75°	803.9	854.7	622.9	431.5	413.4
77.5°	623.3	538.9	375.9	316.3	249.4
80°	444.2	360.2	246.0	131.3	124.0
82.5°	281.7	235.3	96.6	99.1	103.5
85°	146.9	96.6	75.7	81.0	81.5
87.5°	47.3	41.5	45.4	44.9	44.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)