

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-A-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 (P23761)
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-A-UNV-L735-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

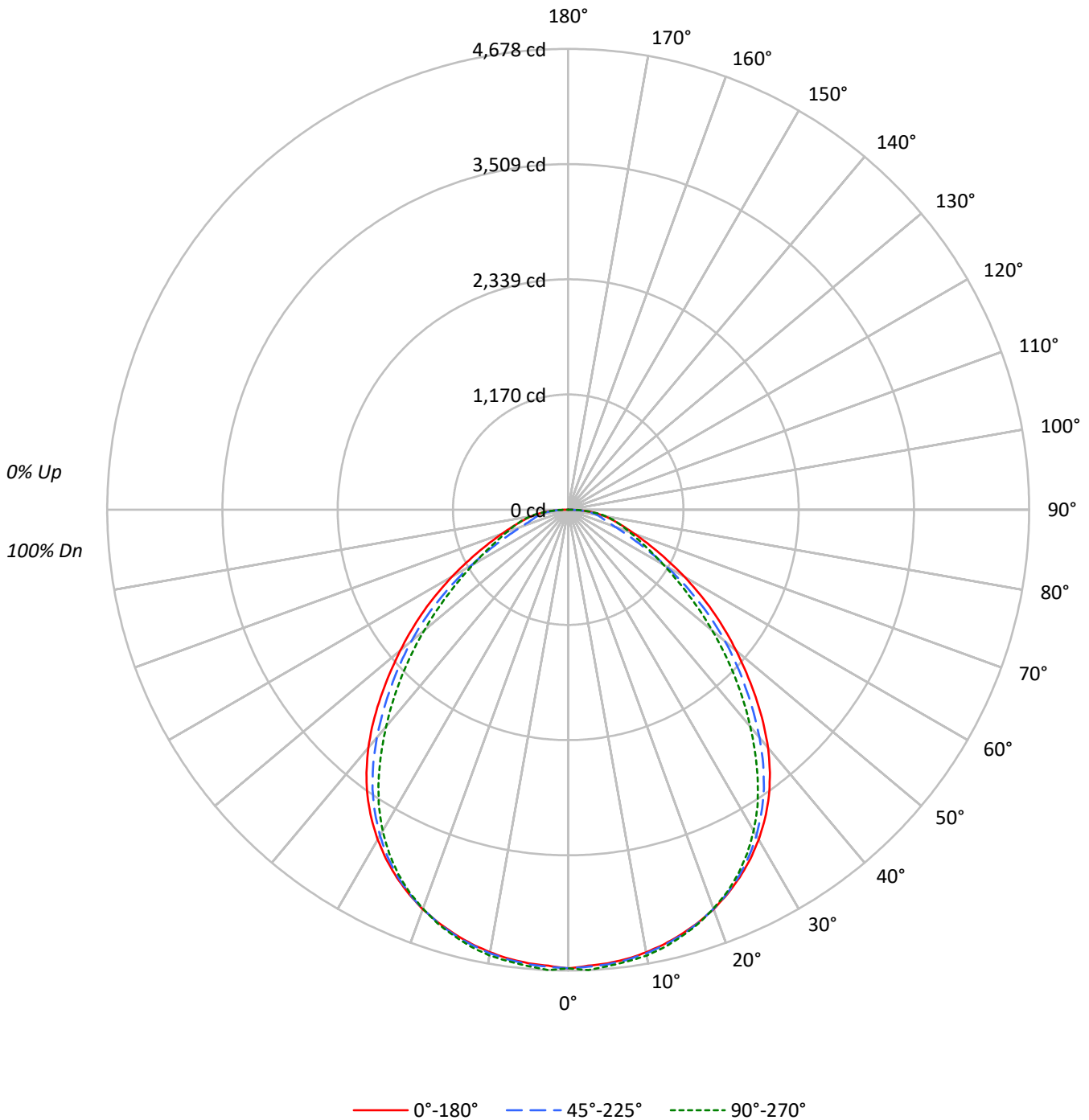
Lumens per Lamp: N/A
Luminaire Lumens: 10694.0 lumens
Efficiency: N/A
Efficacy: 147.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	75	70	90	81	75	69	79	73	68	76	71	67	73	69	65	63
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	52	46	72	60	52	46	58	51	46	56	50	45	55	49	45	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6264	6264	6264
5°	6242	6256	6281
10°	6233	6247	6278
15°	6212	6224	6239
20°	6179	6175	6170
25°	6112	6091	6057
30°	6007	5934	5848
35°	5832	5685	5510
40°	5542	5304	5050
45°	5120	4834	4541
50°	4654	4353	3995
55°	4185	3769	3453
60°	3662	3080	2996
65°	3157	2422	2705
70°	2815	1976	2607
75°	2696	1930	2724
80°	2916	2282	3035
85°	3274	2748	3307



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	441.2	4.1
10°-20°	1262.7	11.8
20°-30°	1888.9	17.7
30°-40°	2155.0	20.2
40°-50°	1961.7	18.3
50°-60°	1440.4	13.5
60°-70°	850.5	8.0
70°-80°	487.4	4.6
80°-90°	206.1	1.9
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
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0°-30°	3592.8	33.6
0°-40°	5747.8	53.7
0°-60°	9150.0	85.6
0°-90°	10694.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10694.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4655	4655	4655	4655	4655	
5°	4621	4650	4632	4650	4651	439
15°	4459	4484	4468	4484	4479	1258
25°	4117	4132	4103	4101	4080	1895
35°	3551	3533	3461	3402	3355	2212
45°	2691	2675	2540	2427	2387	2074
55°	1784	1702	1606	1490	1472	1595
65°	992	866	761	814	850	998
75°	519	445	371	484	524	559
85°	212	196	178	210	214	222
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4655.3	4655.3	4655.3	4655.3	4655.3
2.5°	4633.8	4660.5	4643.7	4662.1	4677.9
5°	4621.2	4650.0	4631.7	4650.0	4650.6
7.5°	4598.1	4624.8	4607.0	4626.9	4624.8
10°	4561.8	4588.6	4572.3	4593.9	4595.4
12.5°	4515.6	4541.4	4524.6	4549.2	4545.0
15°	4459.4	4484.1	4468.4	4484.1	4478.9
17.5°	4393.3	4415.9	4395.4	4412.7	4403.8
20°	4315.6	4334.5	4312.4	4328.7	4309.3
22.5°	4222.7	4239.5	4216.4	4225.3	4205.3
25°	4117.1	4131.8	4103.0	4101.4	4079.9
27.5°	3999.5	4007.4	3970.7	3958.1	3933.4
30°	3866.2	3868.3	3819.5	3795.8	3763.8
32.5°	3716.6	3711.3	3648.8	3613.7	3574.3
35°	3550.7	3533.3	3461.4	3402.1	3354.8
37.5°	3363.2	3335.9	3249.8	3162.1	3117.0
40°	3155.3	3123.3	3019.9	2911.2	2875.0
42.5°	2929.0	2901.7	2779.9	2666.5	2630.8
45°	2690.7	2674.9	2540.5	2426.6	2386.7
47.5°	2452.3	2440.8	2309.5	2193.5	2145.2
50°	2223.4	2198.2	2079.6	1952.5	1908.4
52.5°	2001.3	1949.9	1845.4	1715.2	1682.7
55°	1784.0	1701.6	1606.5	1490.0	1472.1
57.5°	1568.7	1462.2	1369.8	1282.6	1282.1
60°	1360.8	1239.0	1144.5	1098.8	1113.5
62.5°	1166.1	1041.1	938.7	941.9	968.6
65°	991.7	865.7	760.7	813.8	849.5
67.5°	842.1	721.9	615.3	714.0	748.1
70°	715.6	606.9	502.4	625.8	662.6
72.5°	609.0	517.7	423.7	552.3	589.6
75°	518.7	444.7	371.2	484.1	524.0
77.5°	445.2	379.6	332.9	419.0	460.4
80°	376.4	318.7	294.5	356.0	391.7
82.5°	298.2	258.3	244.1	289.3	307.7
85°	212.1	195.8	178.0	210.0	214.2
87.5°	116.6	120.8	99.8	120.8	121.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)