

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-L840-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-L840-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

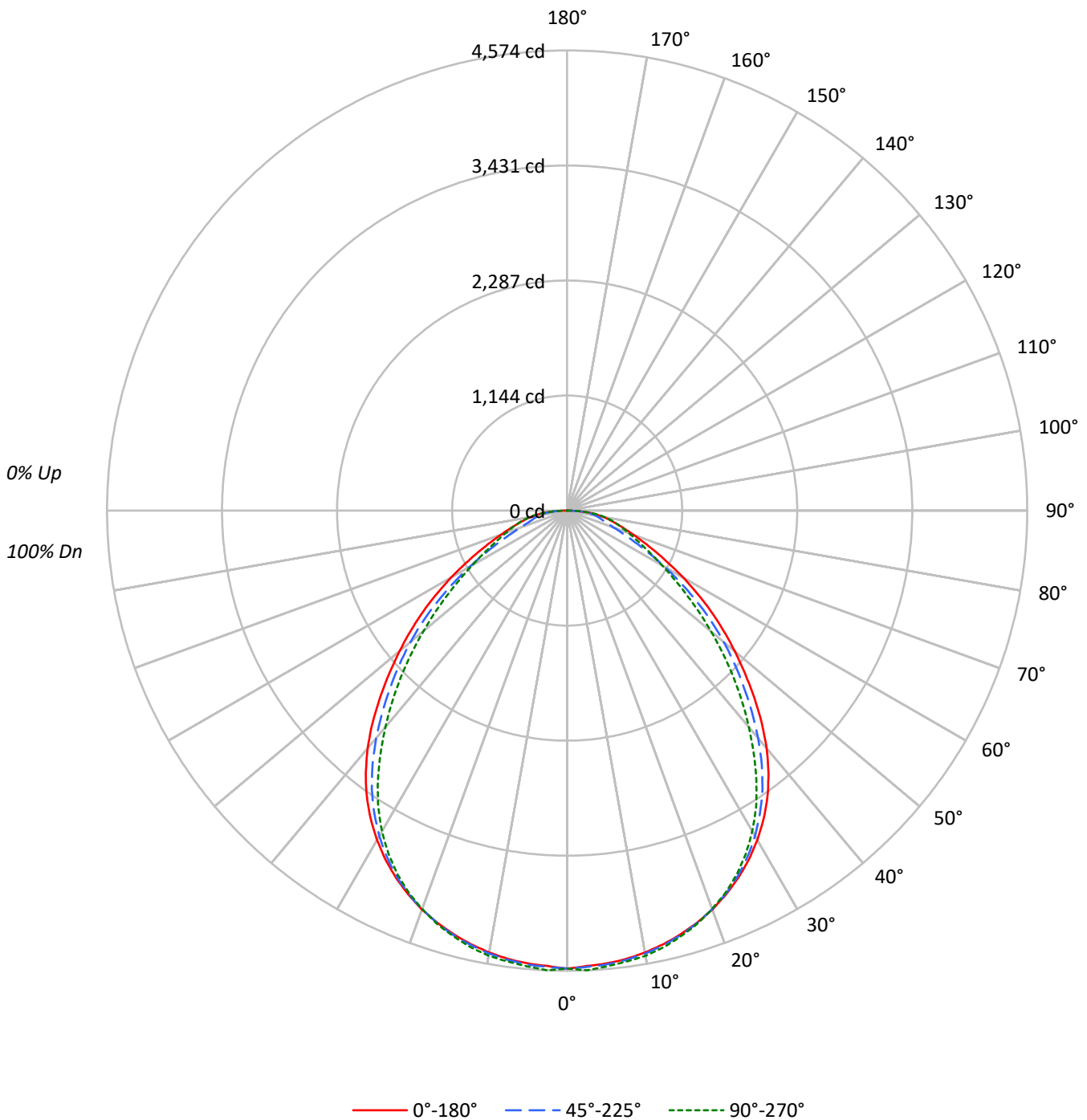
Lumens per Lamp: N/A
Luminaire Lumens: 10456.0 lumens
Efficiency: N/A
Efficacy: 144.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	6124	6124	6124
5°	6103	6116	6141
10°	6094	6108	6139
15°	6074	6086	6100
20°	6042	6037	6033
25°	5976	5956	5922
30°	5873	5802	5717
35°	5702	5559	5388
40°	5419	5186	4937
45°	5006	4727	4440
50°	4550	4256	3906
55°	4092	3685	3377
60°	3580	3011	2930
65°	3087	2368	2644
70°	2753	1933	2548
75°	2637	1887	2663
80°	2852	2232	2967
85°	3202	2686	3233



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	431.4	4.1
10°-20°	1234.6	11.8
20°-30°	1846.8	17.7
30°-40°	2107.1	20.2
40°-50°	1918.0	18.3
50°-60°	1408.4	13.5
60°-70°	831.6	8.0
70°-80°	476.6	4.6
80°-90°	201.5	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
0°-30°	3512.8	33.6
0°-40°	5619.9	53.7
0°-60°	8946.3	85.6
0°-90°	10456.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10456.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4552	4552	4552	4552	4552	
5°	4518	4546	4529	4546	4547	430
15°	4360	4384	4369	4384	4379	1230
25°	4026	4040	4012	4010	3989	1853
35°	3472	3455	3384	3326	3280	2163
45°	2631	2615	2484	2373	2334	2027
55°	1744	1664	1571	1457	1439	1560
65°	970	846	744	796	831	976
75°	507	435	363	473	512	547
85°	207	192	174	205	209	217
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4551.7	4551.7	4551.7	4551.7	4551.7
2.5°	4530.6	4556.8	4540.4	4558.3	4573.7
5°	4518.3	4546.5	4528.6	4546.5	4547.1
7.5°	4495.7	4521.9	4504.4	4524.0	4521.9
10°	4460.3	4486.5	4470.6	4491.6	4493.2
12.5°	4415.1	4440.3	4423.9	4448.0	4443.9
15°	4360.2	4384.3	4368.9	4384.3	4379.2
17.5°	4295.5	4317.6	4297.6	4314.5	4305.8
20°	4219.6	4238.0	4216.5	4232.4	4213.4
22.5°	4128.7	4145.1	4122.5	4131.3	4111.8
25°	4025.5	4039.9	4011.7	4010.1	3989.1
27.5°	3910.5	3918.2	3882.3	3870.0	3845.8
30°	3780.1	3782.2	3734.5	3711.4	3680.0
32.5°	3633.8	3628.7	3567.6	3533.2	3494.7
35°	3471.6	3454.7	3384.4	3326.4	3280.2
37.5°	3288.4	3261.7	3177.5	3091.8	3047.6
40°	3085.1	3053.8	2952.7	2846.4	2811.0
42.5°	2863.9	2837.2	2718.1	2607.2	2572.3
45°	2630.8	2615.4	2484.0	2372.6	2333.6
47.5°	2397.8	2386.5	2258.1	2144.7	2097.5
50°	2173.9	2149.3	2033.3	1909.1	1865.9
52.5°	1956.8	1906.5	1804.3	1677.0	1645.2
55°	1744.3	1663.7	1570.8	1456.8	1439.4
57.5°	1533.8	1429.6	1339.3	1254.1	1253.5
60°	1330.5	1211.5	1119.1	1074.4	1088.8
62.5°	1140.1	1017.9	917.8	920.9	947.1
65°	969.7	846.5	743.8	795.7	830.6
67.5°	823.4	705.8	601.6	698.1	731.5
70°	699.7	593.4	491.3	611.9	647.8
72.5°	595.5	506.1	414.3	540.0	576.5
75°	507.2	434.8	362.9	473.3	512.3
77.5°	435.3	371.1	325.4	409.6	450.2
80°	368.1	311.6	288.0	348.0	382.9
82.5°	291.6	252.6	238.7	282.8	300.8
85°	207.4	191.5	174.0	205.3	209.4
87.5°	114.0	118.1	97.5	118.1	118.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)