

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-L740-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-L740-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

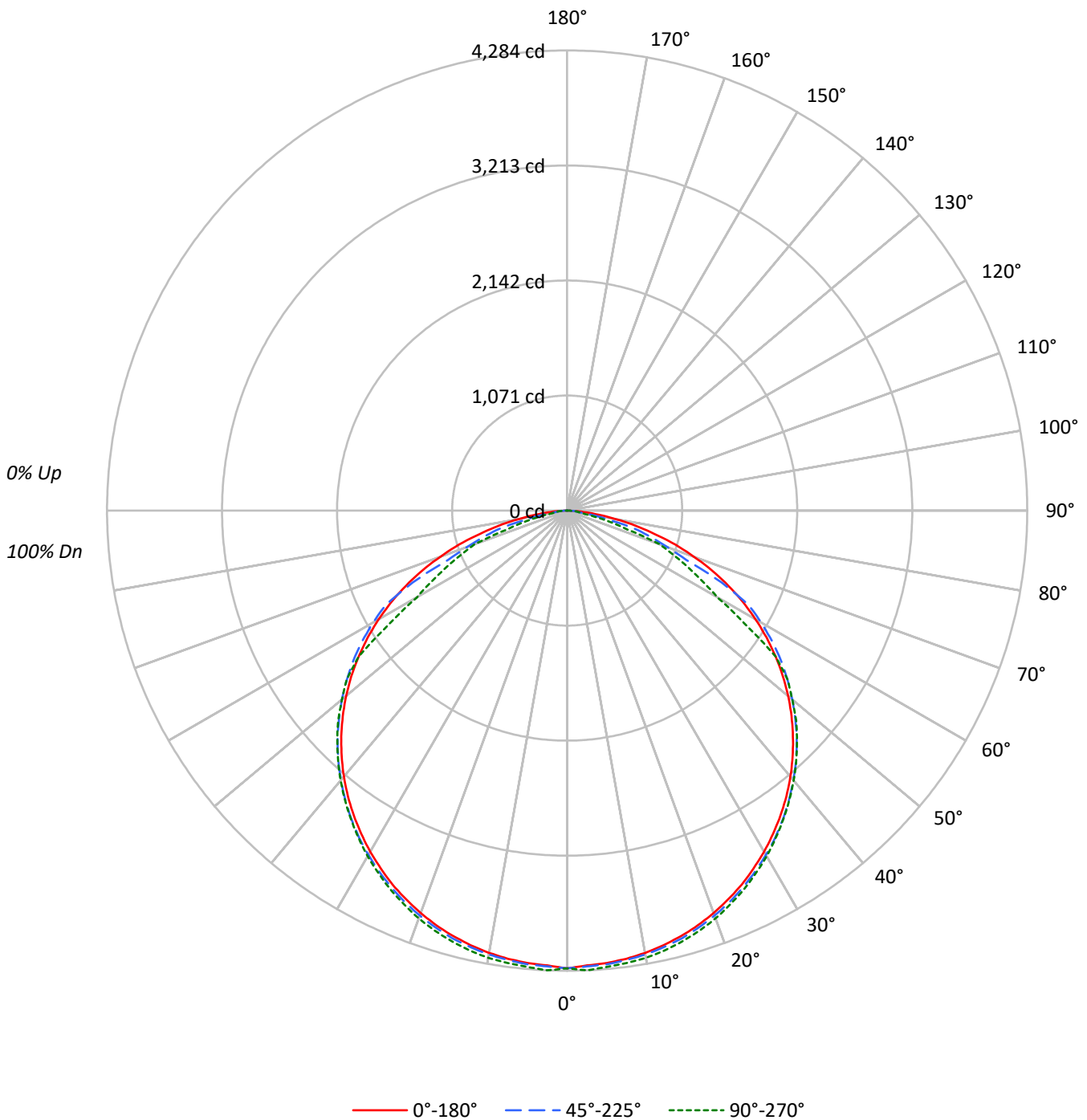
Lumens per Lamp: N/A
Luminaire Lumens: 12302.0 lumens
Efficiency: N/A
Efficacy: 169.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	5734	5734	5734
5°	5710	5726	5758
10°	5713	5733	5777
15°	5712	5742	5782
20°	5709	5745	5785
25°	5707	5748	5779
30°	5697	5752	5774
35°	5689	5755	5763
40°	5679	5755	5763
45°	5658	5752	5759
50°	5624	5728	5727
55°	5558	5697	5556
60°	5455	5613	4347
65°	5273	5052	3917
70°	4940	3887	3610
75°	4374	3389	2249
80°	3602	1995	1006
85°	2374	1223	1317



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	404.4	3.3
10°-20°	1166.7	9.5
20°-30°	1788.6	14.5
30°-40°	2193.6	17.8
40°-50°	2329.2	18.9
50°-60°	2127.5	17.3
60°-70°	1481.6	12.0
70°-80°	691.0	5.6
80°-90°	119.5	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°	3359.7	27.3
0°-40°	5553.2	45.1
0°-60°	10009.9	81.4
0°-90°	12302.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12302.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4261	4261	4261	4261	4261	
5°	4228	4257	4239	4260	4263	402
15°	4100	4129	4122	4147	4151	1158
25°	3844	3878	3872	3900	3893	1771
35°	3464	3504	3504	3527	3508	2168
45°	2973	3018	3023	3042	3026	2293
55°	2370	2417	2429	2433	2368	2116
65°	1656	1707	1587	1262	1230	1634
75°	841	895	652	452	433	900
85°	154	101	79	85	85	199
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4261.3	4261.3	4261.3	4261.3	4261.3
2.5°	4238.8	4265.9	4248.0	4267.4	4283.8
5°	4227.6	4257.2	4239.3	4259.8	4263.3
7.5°	4209.2	4237.3	4220.9	4243.4	4249.0
10°	4181.6	4209.2	4196.4	4223.0	4228.1
12.5°	4144.3	4172.4	4162.7	4191.8	4195.4
15°	4100.4	4129.0	4122.3	4147.4	4150.9
17.5°	4048.8	4078.4	4070.7	4097.3	4099.9
20°	3987.0	4019.1	4012.5	4043.7	4040.6
22.5°	3917.5	3951.7	3946.6	3977.8	3968.6
25°	3843.9	3877.6	3871.5	3900.1	3893.0
27.5°	3757.6	3794.9	3789.2	3816.8	3805.6
30°	3666.6	3704.4	3702.4	3727.4	3716.2
32.5°	3568.5	3608.9	3606.9	3631.4	3614.0
35°	3463.8	3503.7	3503.7	3527.2	3508.3
37.5°	3352.9	3393.3	3393.8	3416.3	3398.4
40°	3233.4	3273.8	3276.3	3297.8	3281.4
42.5°	3107.7	3151.7	3153.7	3173.1	3157.8
45°	2973.4	3018.3	3022.9	3042.3	3026.5
47.5°	2832.9	2878.3	2882.4	2903.4	2892.1
50°	2686.7	2730.7	2736.3	2753.7	2735.8
52.5°	2532.5	2577.4	2585.1	2595.8	2587.6
55°	2369.5	2417.0	2428.8	2432.8	2368.5
57.5°	2200.9	2249.4	2260.7	2166.7	1959.8
60°	2027.2	2075.2	2085.9	1762.6	1615.4
62.5°	1846.3	1893.3	1905.1	1460.6	1413.6
65°	1656.3	1707.4	1586.8	1261.9	1230.2
67.5°	1461.1	1513.8	1200.1	1081.5	1062.6
70°	1255.8	1308.9	988.1	922.1	917.6
72.5°	1058.6	1097.9	810.8	698.9	588.5
75°	841.4	894.6	651.9	451.6	432.7
77.5°	652.4	564.0	393.4	331.1	261.1
80°	464.9	377.0	257.5	137.4	129.8
82.5°	294.8	246.2	101.2	103.7	108.3
85°	153.8	101.2	79.2	84.8	85.3
87.5°	49.6	43.4	47.5	47.0	46.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)