

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

Luminaire Equipment: Sample No. Condition Description

Summary

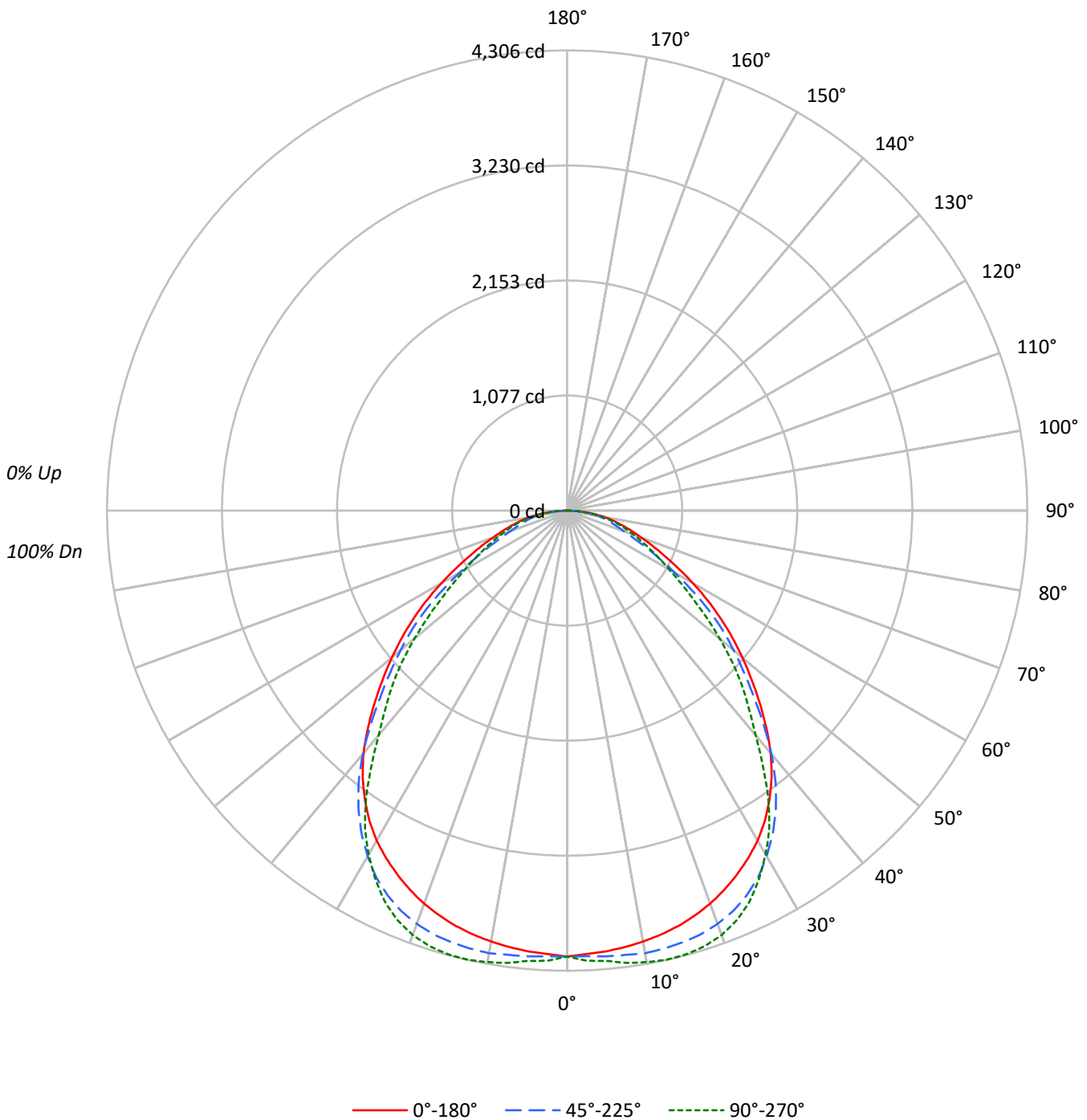
Lumens per Lamp: N/A
Luminaire Lumens: 10344.0 lumens
Efficiency: N/A
Efficacy: 142.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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





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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	85	81	88	83	79	85	81	77	82	78	75	73
3	92	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65	63
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50	48
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	54	49	44	42
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38
8	63	50	42	37	62	50	42	37	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5614	5614	5614
5°	5593	5655	5713
10°	5594	5746	5862
15°	5605	5826	5989
20°	5604	5892	6051
25°	5579	5900	5996
30°	5538	5802	5771
35°	5421	5592	5388
40°	5209	5224	4817
45°	4848	4709	4404
50°	4481	4259	3902
55°	4102	3774	3367
60°	3658	3133	2974
65°	3208	2578	2732
70°	2897	2221	2602
75°	2769	2177	2594
80°	2791	2304	2531
85°	2472	2110	2209



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.8	3.9
10°-20°	1181.2	11.4
20°-30°	1811.8	17.5
30°-40°	2083.9	20.1
40°-50°	1900.7	18.4
50°-60°	1424.5	13.8
60°-70°	876.3	8.5
70°-80°	502.2	4.9
80°-90°	162.6	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°	3393.9	32.8
0°-40°	5477.8	53.0
0°-60°	8803.0	85.1
0°-90°	10344.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10344.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4173	4173	4173	4173	4173	
5°	4141	4183	4187	4222	4230	394
15°	4024	4113	4182	4272	4300	1136
25°	3758	3866	3974	4035	4039	1732
35°	3300	3364	3404	3349	3280	2058
45°	2548	2603	2475	2347	2314	1966
55°	1749	1684	1609	1467	1435	1562
65°	1008	901	810	835	858	1013
75°	533	477	419	479	499	569
85°	160	151	137	144	143	179
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4172.7	4172.7	4172.7	4172.7	4172.7
2.5°	4153.0	4182.8	4173.2	4197.7	4215.8
5°	4140.8	4182.8	4187.0	4221.6	4229.6
7.5°	4120.0	4174.8	4194.0	4255.1	4269.0
10°	4094.5	4160.4	4205.7	4271.6	4290.3
12.5°	4063.6	4140.2	4197.7	4279.1	4305.7
15°	4023.7	4113.1	4182.3	4271.6	4299.8
17.5°	3973.2	4076.9	4157.8	4245.6	4274.8
20°	3913.6	4023.2	4115.2	4205.1	4225.9
22.5°	3841.8	3951.9	4056.7	4137.6	4148.7
25°	3758.2	3866.2	3974.2	4035.4	4038.6
27.5°	3667.3	3767.8	3868.9	3901.9	3887.5
30°	3564.6	3654.5	3734.3	3741.2	3714.6
32.5°	3442.7	3523.6	3580.5	3565.6	3521.0
35°	3300.2	3364.5	3404.4	3348.6	3280.5
37.5°	3143.7	3192.2	3205.5	3084.2	3006.5
40°	2965.5	3007.0	2974.0	2805.4	2742.6
42.5°	2760.2	2808.0	2723.4	2556.9	2518.6
45°	2547.9	2603.2	2475.0	2347.3	2314.3
47.5°	2339.9	2390.4	2245.2	2142.5	2093.5
50°	2140.9	2162.7	2034.5	1918.5	1864.2
52.5°	1945.1	1923.3	1832.3	1688.1	1640.2
55°	1748.8	1683.9	1608.8	1466.8	1435.4
57.5°	1551.9	1461.5	1379.5	1270.5	1258.2
60°	1359.3	1248.1	1164.1	1099.2	1105.0
62.5°	1175.8	1062.5	972.5	951.8	974.1
65°	1007.7	901.3	809.7	834.7	858.2
67.5°	867.7	765.6	672.5	736.3	754.9
70°	736.3	653.9	564.5	646.9	661.3
72.5°	631.5	561.3	483.6	563.9	576.2
75°	532.6	477.2	418.7	479.4	499.0
77.5°	446.4	400.6	360.7	396.4	417.6
80°	360.2	321.3	297.4	313.4	326.7
82.5°	263.9	238.9	221.3	228.2	230.4
85°	160.1	151.1	136.7	144.2	143.1
87.5°	52.7	60.1	63.3	56.9	53.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)