

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-LD5-12SE-W-AWG-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 (P23764)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12SE-W-AWG-UNV-L740-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

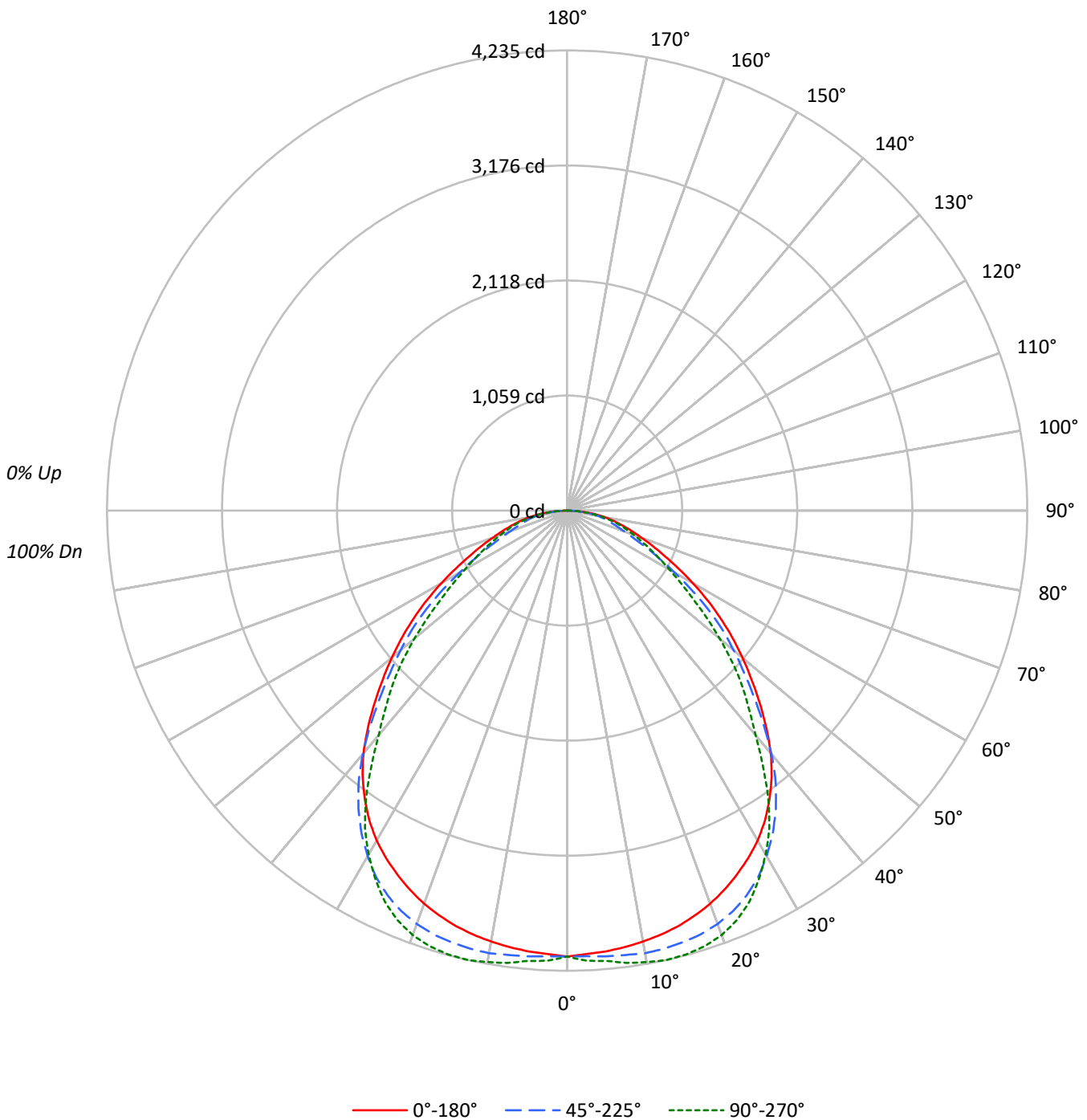
Lumens per Lamp: N/A
Luminaire Lumens: 10174.0 lumens
Efficiency: N/A
Efficacy: 132.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 76.6
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	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					100			
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	85	81	88	83	79	85	81	77	82	78	75	73					73			
3	92	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65	63					63			
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50	48					48			
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	54	49	44	42					42			
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38					38			
8	63	50	42	37	62	50	42	37	48	41	36	47	41	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31					31			
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5522	5522	5522
5°	5501	5562	5619
10°	5502	5652	5765
15°	5513	5730	5891
20°	5512	5796	5951
25°	5488	5803	5897
30°	5447	5706	5676
35°	5332	5500	5300
40°	5123	5138	4738
45°	4768	4632	4331
50°	4408	4189	3838
55°	4035	3712	3312
60°	3598	3081	2925
65°	3155	2535	2687
70°	2849	2184	2559
75°	2723	2141	2551
80°	2745	2266	2490
85°	2431	2076	2174



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	394.2	3.9
10°-20°	1161.8	11.4
20°-30°	1782.1	17.5
30°-40°	2049.6	20.1
40°-50°	1869.4	18.4
50°-60°	1401.1	13.8
60°-70°	861.9	8.5
70°-80°	493.9	4.9
80°-90°	159.9	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°	3338.1	32.8
0°-40°	5387.8	53.0
0°-60°	8658.3	85.1
0°-90°	10174.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10174.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4104	4104	4104	4104	4104	
5°	4073	4114	4118	4152	4160	387
15°	3958	4046	4114	4201	4229	1117
25°	3696	3803	3909	3969	3972	1703
35°	3246	3309	3348	3294	3227	2024
45°	2506	2560	2434	2309	2276	1934
55°	1720	1656	1582	1443	1412	1537
65°	991	886	796	821	844	997
75°	524	469	412	472	491	560
85°	158	149	134	142	141	176
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4104.1	4104.1	4104.1	4104.1	4104.1
2.5°	4084.7	4114.1	4104.6	4128.7	4146.5
5°	4072.7	4114.1	4118.2	4152.3	4160.1
7.5°	4052.3	4106.2	4125.0	4185.2	4198.8
10°	4027.2	4092.1	4136.6	4201.4	4219.8
12.5°	3996.8	4072.2	4128.7	4208.8	4234.9
15°	3957.6	4045.5	4113.5	4201.4	4229.2
17.5°	3907.9	4009.9	4089.5	4175.8	4204.6
20°	3849.3	3957.1	4047.6	4136.0	4156.4
22.5°	3778.6	3886.9	3990.0	4069.6	4080.6
25°	3696.5	3802.7	3908.9	3969.1	3972.2
27.5°	3607.0	3705.9	3805.3	3837.8	3823.6
30°	3506.0	3594.4	3672.9	3679.7	3653.6
32.5°	3386.2	3465.7	3521.7	3507.0	3463.1
35°	3245.9	3309.2	3348.5	3293.5	3226.6
37.5°	3092.1	3139.7	3152.8	3033.5	2957.1
40°	2916.8	2957.6	2925.2	2759.3	2697.5
42.5°	2714.8	2761.9	2678.7	2514.9	2477.2
45°	2506.0	2560.4	2434.3	2308.7	2276.3
47.5°	2301.4	2351.1	2208.3	2107.3	2059.1
50°	2105.7	2127.1	2001.0	1887.0	1833.6
52.5°	1913.1	1891.7	1802.2	1660.4	1613.3
55°	1720.0	1656.2	1582.4	1442.7	1411.8
57.5°	1526.4	1437.5	1356.9	1249.6	1237.6
60°	1337.0	1227.6	1144.9	1081.1	1086.9
62.5°	1156.5	1045.0	956.6	936.2	958.1
65°	991.1	886.4	796.4	821.0	844.1
67.5°	853.5	753.0	661.4	724.2	742.5
70°	724.2	643.1	555.2	636.3	650.4
72.5°	621.1	552.1	475.7	554.7	566.7
75°	523.8	469.4	411.8	471.5	490.8
77.5°	439.0	394.0	354.8	389.8	410.8
80°	354.3	316.1	292.5	308.2	321.3
82.5°	259.5	235.0	217.7	224.5	226.6
85°	157.5	148.6	134.5	141.8	140.8
87.5°	51.8	59.1	62.3	56.0	52.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)