

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-CLWG-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 (P33385)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-12SE-W-CLWG-UNV-L840-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
WIDE DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

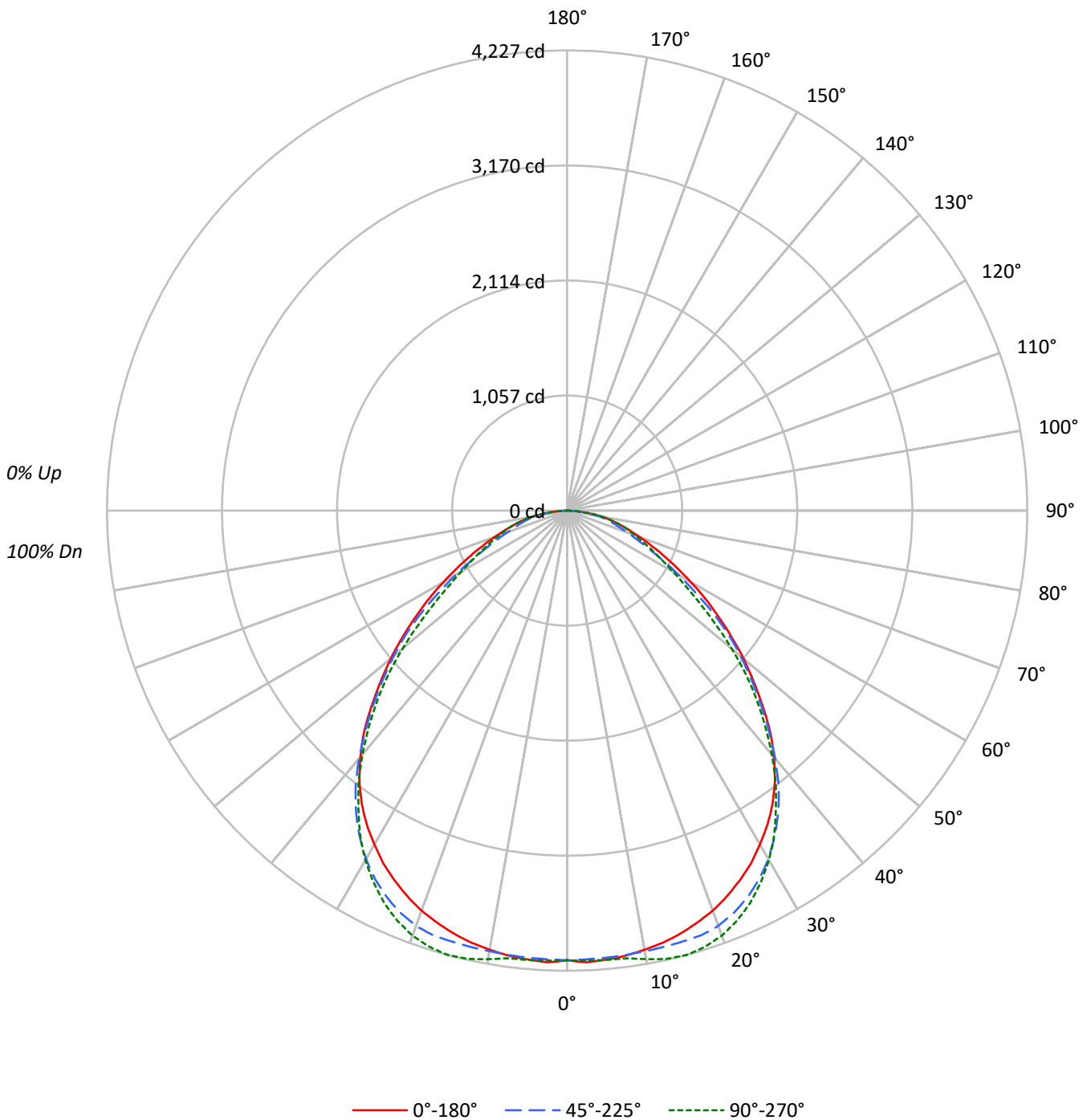
Lumens per Lamp: N/A  
Luminaire Lumens: 10303.0 lumens  
Efficiency: N/A  
Efficacy: 134.5 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65	63
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55
5	79	67	58	52	77	65	57	52	63	56	51	61	55	50	60	54	50	48
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44	42
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	5558	5558	5558
5°	5591	5568	5596
10°	5596	5615	5716
15°	5603	5709	5888
20°	5599	5813	5949
25°	5565	5818	5904
30°	5501	5741	5759
35°	5403	5555	5489
40°	5190	5222	5139
45°	4836	4785	4688
50°	4428	4356	4133
55°	3977	3829	3495
60°	3527	3169	3017
65°	3108	2633	2738
70°	2779	2284	2607
75°	2603	2221	2637
80°	2534	2245	2510
85°	2024	1777	1842



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	393.5	3.8
10°-20°	1159.2	11.3
20°-30°	1783.3	17.3
30°-40°	2081.2	20.2
40°-50°	1934.0	18.8
50°-60°	1433.5	13.9
60°-70°	876.4	8.5
70°-80°	499.2	4.8
80°-90°	142.8	1.4
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°	3336.0	32.4
0°-40°	5417.2	52.6
0°-60°	8784.7	85.3
0°-90°	10303.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10303.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4131	4131	4131	4131	4131	
5°	4140	4121	4123	4120	4143	394
15°	4022	4020	4098	4179	4227	1135
25°	3749	3777	3919	3952	3977	1727
35°	3289	3315	3382	3354	3342	2050
45°	2541	2556	2515	2475	2464	1958
55°	1695	1653	1632	1516	1490	1521
65°	976	887	827	849	860	977
75°	501	470	427	487	507	536
85°	131	128	115	119	119	151
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4131.2	4131.2	4131.2	4131.2	4131.2
2.5°	4153.6	4130.1	4125.9	4116.3	4137.6
5°	4139.7	4120.6	4122.7	4119.5	4142.9
7.5°	4123.7	4109.9	4118.4	4117.4	4148.3
10°	4096.0	4088.6	4109.9	4133.3	4183.4
12.5°	4065.1	4057.7	4104.6	4164.2	4218.6
15°	4022.5	4020.4	4098.2	4179.2	4227.1
17.5°	3969.2	3972.4	4090.7	4160.0	4202.6
20°	3910.6	3916.0	4059.8	4116.3	4154.6
22.5°	3835.0	3853.1	4000.1	4047.0	4076.9
25°	3748.7	3777.4	3919.2	3952.2	3976.7
27.5°	3656.0	3684.7	3819.0	3836.0	3849.9
30°	3540.9	3581.4	3695.4	3697.5	3707.1
32.5°	3423.7	3459.9	3547.3	3537.7	3539.8
35°	3289.4	3315.0	3382.1	3354.4	3341.6
37.5°	3134.9	3148.8	3191.4	3149.8	3147.7
40°	2954.8	2972.9	2972.9	2915.4	2926.0
42.5°	2763.0	2769.4	2742.8	2688.4	2697.0
45°	2541.4	2556.3	2514.7	2475.3	2463.6
47.5°	2321.9	2336.8	2293.1	2247.3	2227.0
50°	2115.2	2107.7	2081.1	2003.3	1974.5
52.5°	1901.0	1877.5	1866.9	1752.9	1719.8
55°	1695.3	1652.7	1632.4	1516.3	1489.7
57.5°	1504.6	1427.9	1389.5	1298.9	1288.3
60°	1310.6	1224.3	1177.5	1118.8	1121.0
62.5°	1134.8	1044.3	987.8	970.7	978.2
65°	976.1	886.6	826.9	849.3	859.9
67.5°	832.2	758.7	691.6	743.8	754.4
70°	706.5	647.9	580.7	657.5	662.8
72.5°	602.0	554.1	497.6	570.1	581.8
75°	500.8	469.9	427.3	487.0	507.2
77.5°	412.4	387.9	363.4	399.6	422.0
80°	327.1	302.6	289.8	309.0	323.9
82.5°	231.2	215.2	202.5	216.3	223.8
85°	131.1	127.9	115.1	119.3	119.3
87.5°	29.8	34.1	38.4	35.2	29.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)