

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-CL-UNV-L750-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 (P23762)  
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-CL-UNV-L750-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

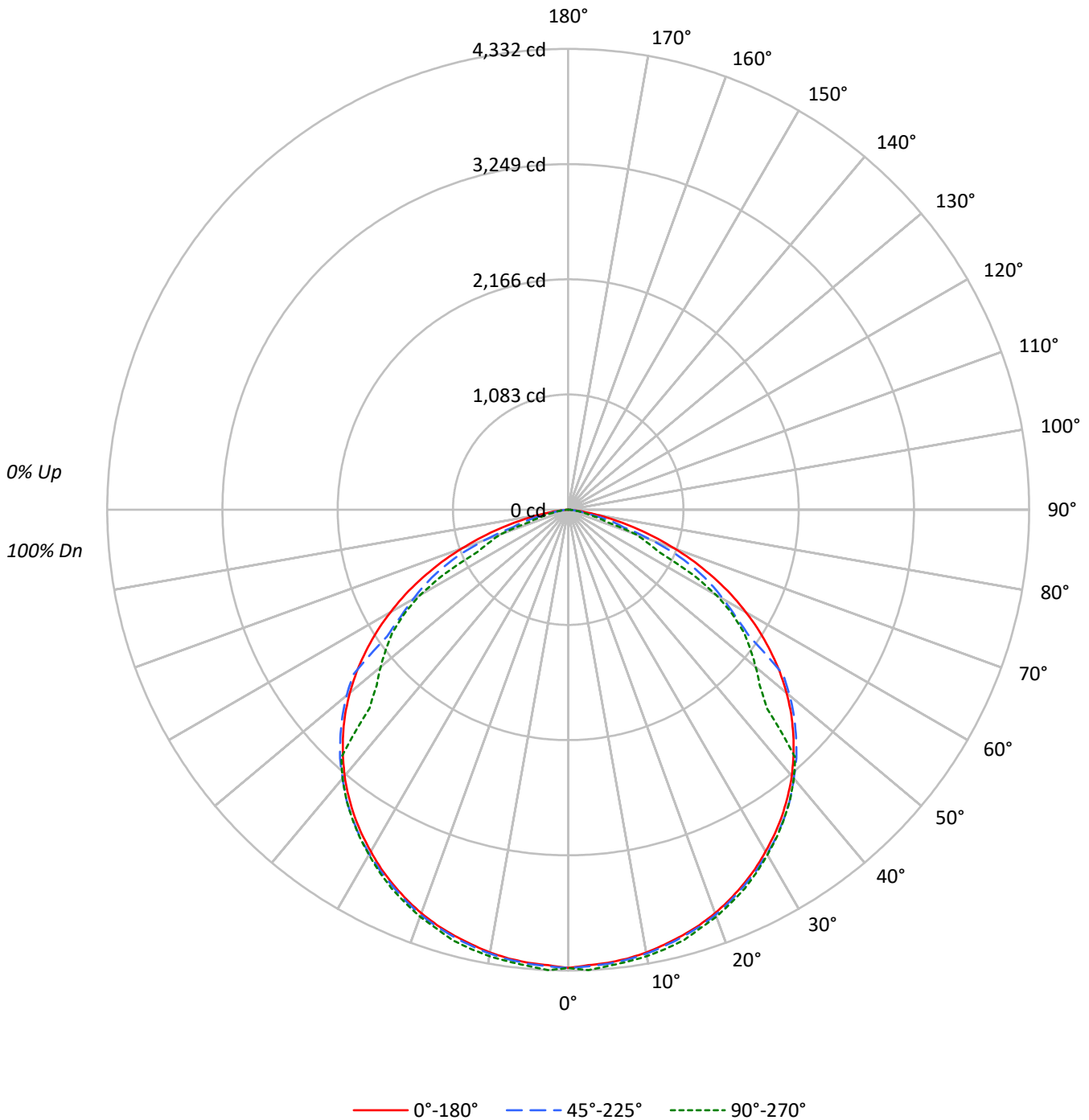
Lumens per Lamp: N/A  
Luminaire Lumens: 11644.0 lumens  
Efficiency: N/A  
Efficacy: 152.0 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	106	102	98	107	103	100	97	99	96	94		95	93	91		92	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81	78	75	73
3	92	82	74	68	89	80	73	67	77	71	66		75	69	65		72	68	64	62
4	84	73	64	58	82	71	64	57	69	62	57		67	61	56		64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49		60	54	49		58	53	48	46
6	72	59	50	44	70	58	49	43	56	49	43		54	48	43		53	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38		49	43	38		48	42	38	36
8	62	48	40	34	60	48	40	34	46	39	34		45	39	34		44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31		42	35	31		41	35	30	29
10	54	41	33	28	53	40	33	28	40	33	28		39	32	28		38	32	28	26

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

	0°	45°	90°
0°	5795	5795	5795
5°	5774	5787	5815
10°	5773	5790	5824
15°	5773	5791	5837
20°	5780	5802	5829
25°	5774	5796	5831
30°	5763	5805	5818
35°	5760	5813	5817
40°	5742	5793	5793
45°	5693	5762	5020
50°	5605	5690	4817
55°	5446	4870	4731
60°	5190	4527	4323
65°	4800	4202	2994
70°	4180	3270	2668
75°	3302	2195	1434
80°	2125	1048	894
85°	874	639	704



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	408.6	3.5
10°-20°	1177.6	10.1
20°-30°	1805.5	15.5
30°-40°	2212.9	19.0
40°-50°	2275.0	19.5
50°-60°	1941.6	16.7
60°-70°	1283.6	11.0
70°-80°	475.6	4.1
80°-90°	63.6	0.5
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°	3391.7	29.1
0°-40°	5604.5	48.1
0°-60°	9821.2	84.3
0°-90°	11644.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11644.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4307	4307	4307	4307	4307	
5°	4275	4305	4284	4301	4306	407
15°	4144	4170	4157	4189	4191	1171
25°	3889	3910	3904	3939	3927	1793
35°	3507	3531	3539	3561	3541	2193
45°	2992	3022	3028	3023	2638	2306
55°	2322	2364	2076	2016	2017	2071
65°	1508	1520	1320	1086	940	1487
75°	635	556	422	284	276	681
85°	57	40	41	45	46	94
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4307.1	4307.1	4307.1	4307.1	4307.1
2.5°	4286.1	4312.8	4297.1	4317.0	4332.2
5°	4275.1	4305.0	4284.5	4301.3	4305.5
7.5°	4256.2	4284.0	4265.1	4287.1	4284.0
10°	4225.8	4251.0	4237.8	4260.9	4262.5
12.5°	4187.0	4212.2	4200.1	4228.4	4227.9
15°	4144.5	4169.7	4157.1	4188.6	4190.7
17.5°	4094.7	4117.8	4108.3	4137.2	4125.6
20°	4037.0	4056.9	4052.2	4079.5	4071.1
22.5°	3966.2	3986.7	3981.9	4013.4	4000.8
25°	3889.1	3909.6	3903.8	3938.9	3927.4
27.5°	3805.7	3825.1	3824.6	3857.6	3839.8
30°	3709.2	3734.9	3736.5	3765.9	3744.9
32.5°	3613.8	3637.9	3644.7	3666.2	3648.4
35°	3506.8	3530.9	3538.8	3560.8	3541.4
37.5°	3391.4	3411.9	3426.0	3442.3	3427.1
40°	3269.2	3287.6	3298.1	3318.0	3298.1
42.5°	3132.9	3159.1	3173.8	3188.0	3155.4
45°	2991.8	3021.7	3028.0	3023.3	2638.4
47.5°	2842.4	2874.9	2878.5	2510.4	2439.6
50°	2677.7	2718.6	2718.1	2320.0	2301.2
52.5°	2506.2	2545.5	2544.0	2171.1	2158.5
55°	2321.6	2364.1	2076.2	2015.9	2016.9
57.5°	2133.3	2163.8	1862.7	1865.4	1830.8
60°	1928.8	1957.7	1682.3	1666.1	1606.3
62.5°	1723.8	1735.8	1507.7	1428.5	1314.7
65°	1507.7	1520.3	1320.0	1085.6	940.3
67.5°	1285.9	1298.5	1095.5	807.6	796.6
70°	1062.5	959.7	831.2	672.8	678.1
72.5°	842.2	737.3	543.3	521.3	376.5
75°	635.1	556.4	422.2	283.7	275.8
77.5°	442.1	383.4	226.0	193.5	180.9
80°	274.3	192.5	135.3	120.1	115.4
82.5°	139.0	110.7	73.4	73.4	73.4
85°	56.6	40.4	41.4	45.1	45.6
87.5°	12.1	16.3	19.9	20.5	19.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)