

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-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-LD5-12HE-W-CL-UNV-L750-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

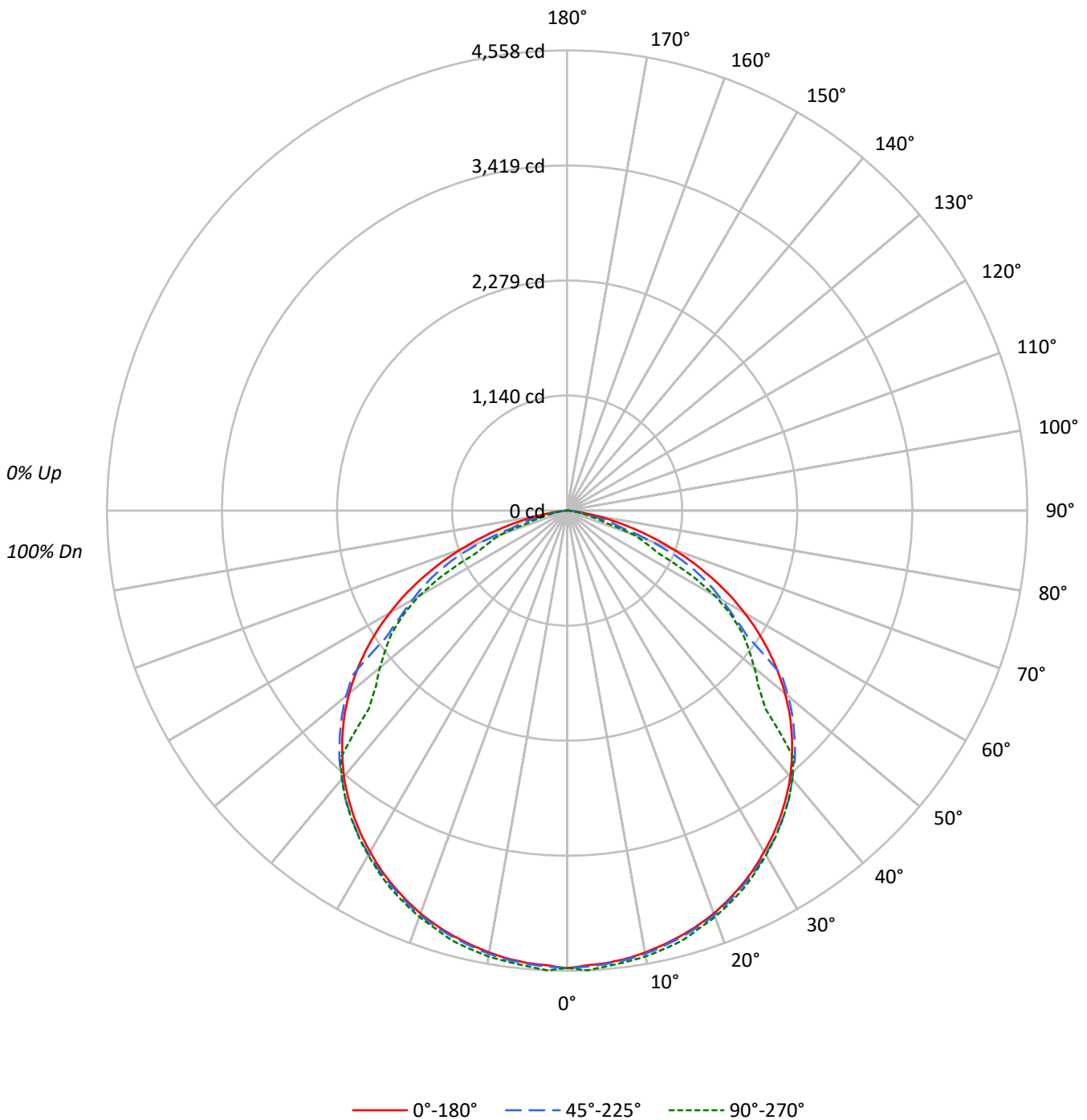
Lumens per Lamp: N/A  
Luminaire Lumens: 12250.0 lumens  
Efficiency: N/A  
Efficacy: 168.7 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	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°	6097	6097	6097
5°	6075	6088	6118
10°	6074	6091	6127
15°	6074	6092	6141
20°	6081	6104	6133
25°	6074	6097	6134
30°	6063	6107	6121
35°	6060	6115	6120
40°	6041	6094	6094
45°	5989	6062	5282
50°	5897	5986	5067
55°	5729	5124	4978
60°	5461	4763	4547
65°	5050	4421	3149
70°	4397	3440	2806
75°	3473	2309	1509
80°	2235	1103	941
85°	920	673	741



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	429.8	3.5
10°-20°	1238.9	10.1
20°-30°	1899.4	15.5
30°-40°	2328.1	19.0
40°-50°	2393.4	19.5
50°-60°	2042.7	16.7
60°-70°	1350.4	11.0
70°-80°	500.3	4.1
80°-90°	66.9	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°	3568.2	29.1
0°-40°	5896.2	48.1
0°-60°	10332.3	84.3
0°-90°	12250.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12250.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4531	4531	4531	4531	4531	
5°	4498	4529	4508	4525	4530	428
15°	4360	4387	4373	4406	4409	1232
25°	4092	4113	4107	4144	4132	1886
35°	3689	3715	3723	3746	3726	2308
45°	3148	3179	3186	3181	2776	2426
55°	2442	2487	2184	2121	2122	2179
65°	1586	1599	1389	1142	989	1564
75°	668	585	444	298	290	717
85°	60	42	44	47	48	99
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4531.2	4531.2	4531.2	4531.2	4531.2
2.5°	4509.2	4537.3	4520.7	4541.7	4557.7
5°	4497.6	4529.0	4507.5	4525.2	4529.6
7.5°	4477.7	4507.0	4487.1	4510.3	4507.0
10°	4445.7	4472.2	4458.4	4482.7	4484.3
12.5°	4404.9	4431.4	4418.7	4448.5	4447.9
15°	4360.2	4386.7	4373.4	4406.5	4408.7
17.5°	4307.8	4332.1	4322.1	4352.5	4340.3
20°	4247.1	4268.1	4263.1	4291.8	4283.0
22.5°	4172.6	4194.1	4189.2	4222.3	4209.0
25°	4091.5	4113.0	4107.0	4143.9	4131.8
27.5°	4003.8	4024.2	4023.7	4058.4	4039.7
30°	3902.3	3929.3	3931.0	3961.9	3939.8
32.5°	3801.9	3827.2	3834.4	3857.0	3838.3
35°	3689.3	3714.7	3723.0	3746.1	3725.7
37.5°	3567.9	3589.5	3604.3	3621.5	3605.5
40°	3439.4	3458.7	3469.7	3490.7	3469.7
42.5°	3295.9	3323.5	3339.0	3353.9	3319.7
45°	3147.5	3179.0	3185.6	3180.6	2775.7
47.5°	2990.3	3024.5	3028.4	2641.1	2566.6
50°	2817.1	2860.1	2859.5	2440.8	2420.9
52.5°	2636.6	2678.0	2676.4	2284.1	2270.9
55°	2442.4	2487.1	2184.2	2120.8	2121.9
57.5°	2244.4	2276.4	1959.7	1962.4	1926.0
60°	2029.2	2059.5	1769.9	1752.8	1689.9
62.5°	1813.5	1826.2	1586.2	1502.9	1383.1
65°	1586.2	1599.4	1388.7	1142.0	989.2
67.5°	1352.8	1366.0	1152.5	849.6	838.1
70°	1117.8	1009.6	874.5	707.8	713.4
72.5°	886.1	775.7	571.6	548.4	396.1
75°	668.1	585.4	444.1	298.5	290.2
77.5°	465.1	403.3	237.8	203.6	190.3
80°	288.5	202.5	142.3	126.3	121.4
82.5°	146.2	116.4	77.2	77.2	77.2
85°	59.6	42.5	43.6	47.4	48.0
87.5°	12.7	17.1	21.0	21.5	21.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)