

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

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

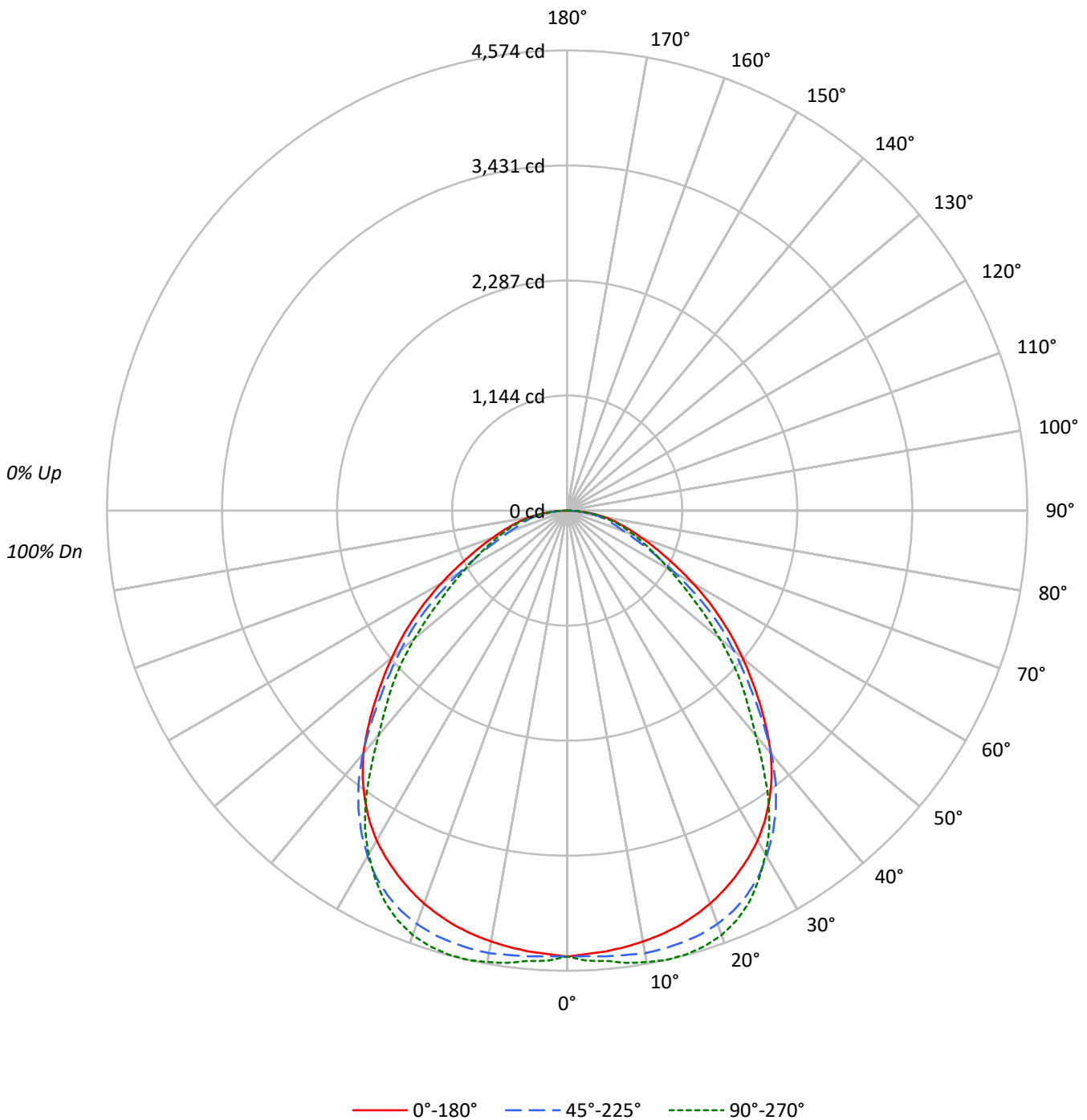
Lumens per Lamp: N/A  
Luminaire Lumens: 10988.0 lumens  
Efficiency: N/A  
Efficacy: 143.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.32  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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



TEST NUMBER: P#  
CATALOG NUMBER: HBLED-LD5-12SE-W-AWG-UNV-L750-ED1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-12SE-W-AWG-UNV-L750-ED1-U

**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°	5964	5964	5964
5°	5941	6007	6068
10°	5942	6104	6227
15°	5954	6188	6362
20°	5952	6259	6428
25°	5927	6267	6369
30°	5883	6163	6130
35°	5758	5940	5724
40°	5533	5549	5117
45°	5150	5003	4678
50°	4760	4524	4145
55°	4358	4009	3577
60°	3886	3327	3159
65°	3408	2739	2902
70°	3077	2359	2764
75°	2941	2312	2756
80°	2965	2448	2689
85°	2626	2242	2347



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-12SE-W-AWG-UNV-L750-ED1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	425.8	3.9
10°-20°	1254.8	11.4
20°-30°	1924.6	17.5
30°-40°	2213.6	20.1
40°-50°	2019.0	18.4
50°-60°	1513.2	13.8
60°-70°	930.8	8.5
70°-80°	533.4	4.9
80°-90°	172.7	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
<hr/>		
0°-30°	3605.2	32.8
0°-40°	5818.8	53.0
0°-60°	9351.0	85.1
0°-90°	10988.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10988.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4432	4432	4432	4432	4432	
5°	4399	4443	4448	4484	4493	418
15°	4274	4369	4443	4538	4568	1207
25°	3992	4107	4222	4287	4290	1840
35°	3506	3574	3616	3557	3485	2186
45°	2706	2765	2629	2493	2458	2089
55°	1858	1789	1709	1558	1525	1660
65°	1070	957	860	887	912	1076
75°	566	507	445	509	530	605
85°	170	160	145	153	152	190
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-12SE-W-AWG-UNV-L750-ED1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4432.5	4432.5	4432.5	4432.5	4432.5
2.5°	4411.6	4443.2	4433.0	4459.0	4478.2
5°	4398.6	4443.2	4447.7	4484.5	4492.9
7.5°	4376.5	4434.7	4455.1	4520.1	4534.8
10°	4349.4	4419.5	4467.5	4537.6	4557.4
12.5°	4316.6	4398.0	4459.0	4545.5	4573.8
15°	4274.2	4369.2	4442.6	4537.6	4567.5
17.5°	4220.5	4330.7	4416.6	4509.9	4541.0
20°	4157.2	4273.7	4371.4	4466.9	4489.0
22.5°	4080.9	4197.9	4309.3	4395.2	4407.0
25°	3992.2	4106.9	4221.7	4286.7	4290.1
27.5°	3895.6	4002.4	4109.8	4144.8	4129.5
30°	3786.5	3882.0	3966.8	3974.1	3945.9
32.5°	3657.1	3743.0	3803.5	3787.6	3740.2
35°	3505.6	3574.0	3616.4	3557.1	3484.7
37.5°	3339.5	3390.9	3405.0	3276.2	3193.7
40°	3150.1	3194.2	3159.2	2980.0	2913.3
42.5°	2932.0	2982.9	2893.0	2716.1	2675.4
45°	2706.5	2765.3	2629.1	2493.4	2458.4
47.5°	2485.5	2539.2	2384.9	2275.9	2223.9
50°	2274.2	2297.3	2161.1	2037.9	1980.3
52.5°	2066.2	2043.0	1946.4	1793.2	1742.4
55°	1857.6	1788.7	1709.0	1558.1	1524.8
57.5°	1648.5	1552.5	1465.4	1349.6	1336.6
60°	1444.0	1325.8	1236.5	1167.6	1173.8
62.5°	1249.0	1128.6	1033.1	1011.1	1034.8
65°	1070.4	957.4	860.2	886.7	911.6
67.5°	921.8	813.3	714.3	782.2	801.9
70°	782.2	694.6	599.6	687.2	702.5
72.5°	670.8	596.2	513.7	599.1	612.1
75°	565.7	506.9	444.8	509.2	530.1
77.5°	474.2	425.6	383.2	421.0	443.6
80°	382.6	341.4	315.9	332.9	347.0
82.5°	280.3	253.8	235.1	242.4	244.7
85°	170.1	160.5	145.2	153.2	152.0
87.5°	55.9	63.9	67.3	60.5	57.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)