

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-LD5-15SE-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-LD5-15SE-W-AWG-UNV-L750-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

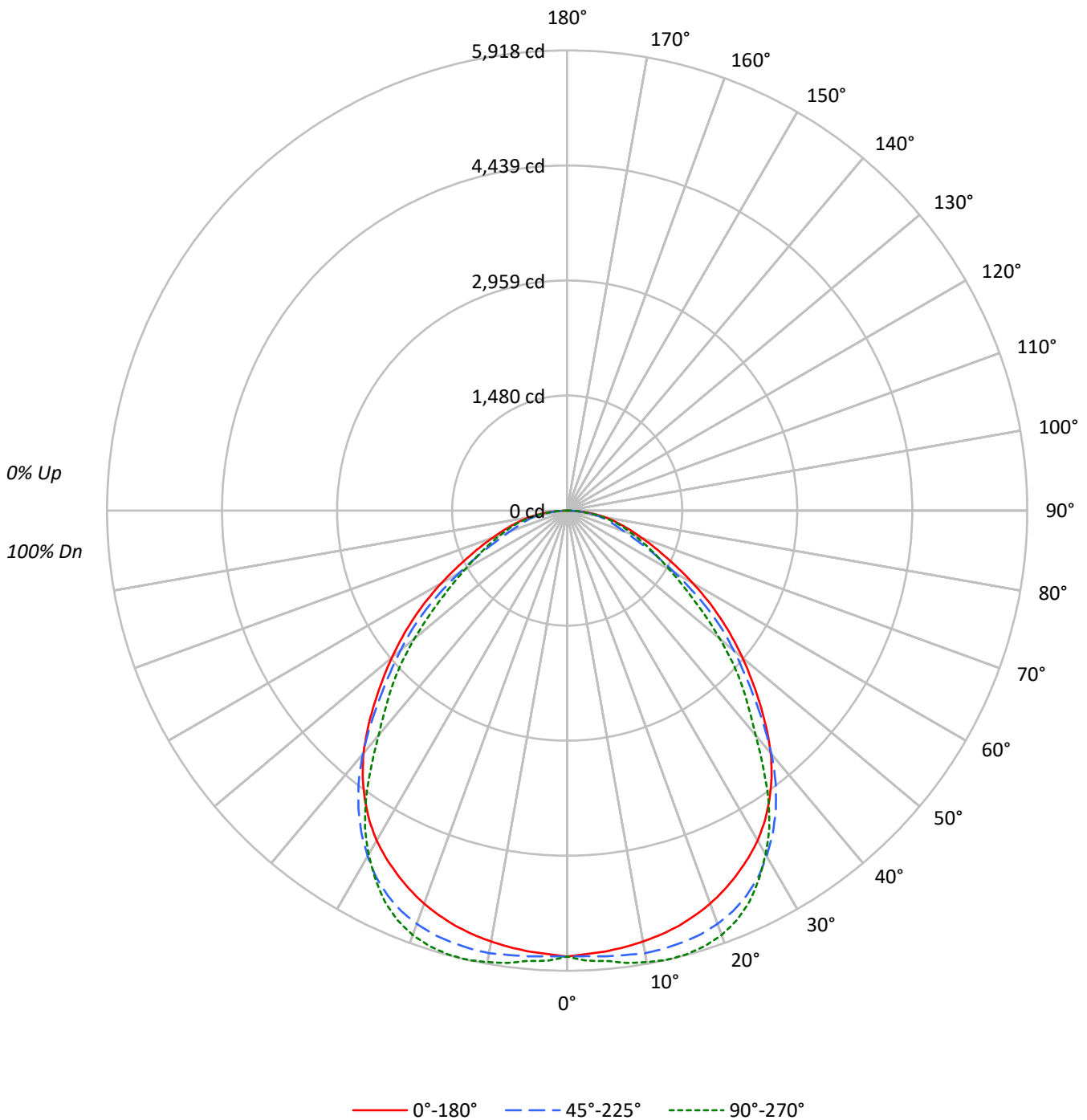
Lumens per Lamp: N/A  
Luminaire Lumens: 14217.0 lumens  
Efficiency: N/A  
Efficacy: 149.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.32  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 95.2  
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-LD5-15SE-W-AWG-UNV-L750-ED1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-15SE-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°	7716	7716	7716
5°	7687	7773	7852
10°	7689	7897	8056
15°	7703	8007	8232
20°	7702	8098	8316
25°	7668	8109	8241
30°	7612	7974	7932
35°	7450	7686	7406
40°	7159	7180	6621
45°	6663	6473	6052
50°	6159	5853	5363
55°	5638	5187	4628
60°	5028	4305	4087
65°	4409	3543	3755
70°	3981	3052	3576
75°	3805	2992	3566
80°	3835	3168	3479
85°	3398	2901	3037



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-15SE-W-AWG-UNV-L750-ED1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	550.9	3.9
10°-20°	1623.5	11.4
20°-30°	2490.2	17.5
30°-40°	2864.1	20.1
40°-50°	2612.3	18.4
50°-60°	1957.9	13.8
60°-70°	1204.4	8.5
70°-80°	690.2	4.9
80°-90°	223.5	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°	4664.7	32.8
0°-40°	7528.8	53.0
0°-60°	12099.0	85.1
0°-90°	14217.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14217.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5735	5735	5735	5735	5735	
5°	5691	5749	5755	5802	5813	541
15°	5530	5653	5748	5871	5910	1561
25°	5165	5314	5462	5546	5551	2380
35°	4536	4624	4679	4602	4509	2829
45°	3502	3578	3402	3226	3181	2702
55°	2404	2314	2211	2016	1973	2147
65°	1385	1239	1113	1147	1180	1393
75°	732	656	576	659	686	783
85°	220	208	188	198	197	246
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-15SE-W-AWG-UNV-L750-ED1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5735.0	5735.0	5735.0	5735.0	5735.0
2.5°	5708.0	5748.9	5735.8	5769.4	5794.3
5°	5691.1	5748.9	5754.8	5802.3	5813.3
7.5°	5662.6	5737.9	5764.3	5848.4	5867.4
10°	5627.5	5718.2	5780.4	5871.0	5896.6
12.5°	5585.1	5690.4	5769.4	5881.3	5917.8
15°	5530.3	5653.1	5748.2	5871.0	5909.8
17.5°	5460.8	5603.4	5714.5	5835.2	5875.4
20°	5378.9	5529.5	5656.0	5779.6	5808.1
22.5°	5280.2	5431.6	5575.6	5686.8	5702.1
25°	5165.4	5313.8	5462.3	5546.4	5550.8
27.5°	5040.4	5178.6	5317.5	5362.8	5343.1
30°	4899.2	5022.8	5132.5	5142.0	5105.4
32.5°	4731.8	4842.9	4921.2	4900.7	4839.3
35°	4535.8	4624.3	4679.1	4602.3	4508.8
37.5°	4320.8	4387.4	4405.6	4238.9	4132.2
40°	4075.9	4132.9	4087.6	3855.8	3769.5
42.5°	3793.6	3859.4	3743.2	3514.3	3461.6
45°	3501.9	3577.9	3401.7	3226.2	3180.8
47.5°	3215.9	3285.4	3085.8	2944.7	2877.4
50°	2942.5	2972.4	2796.2	2636.8	2562.2
52.5°	2673.4	2643.4	2518.3	2320.2	2254.4
55°	2403.5	2314.3	2211.2	2016.0	1972.9
57.5°	2133.0	2008.7	1896.1	1746.2	1729.4
60°	1868.3	1715.5	1599.9	1510.7	1518.8
62.5°	1616.0	1460.3	1336.7	1308.2	1338.9
65°	1384.9	1238.7	1112.9	1147.3	1179.5
67.5°	1192.6	1052.2	924.3	1012.0	1037.6
70°	1012.0	898.7	775.8	889.2	908.9
72.5°	868.0	771.4	664.7	775.1	791.9
75°	732.0	655.9	575.5	658.8	685.9
77.5°	613.5	550.6	495.8	544.8	574.0
80°	495.0	441.7	408.8	430.7	449.0
82.5°	362.7	328.3	304.2	313.7	316.6
85°	220.1	207.7	187.9	198.2	196.7
87.5°	72.4	82.6	87.0	78.2	73.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)