

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-LD5-15HE-W-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 (P23760)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-15HE-W-UNV-L750-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

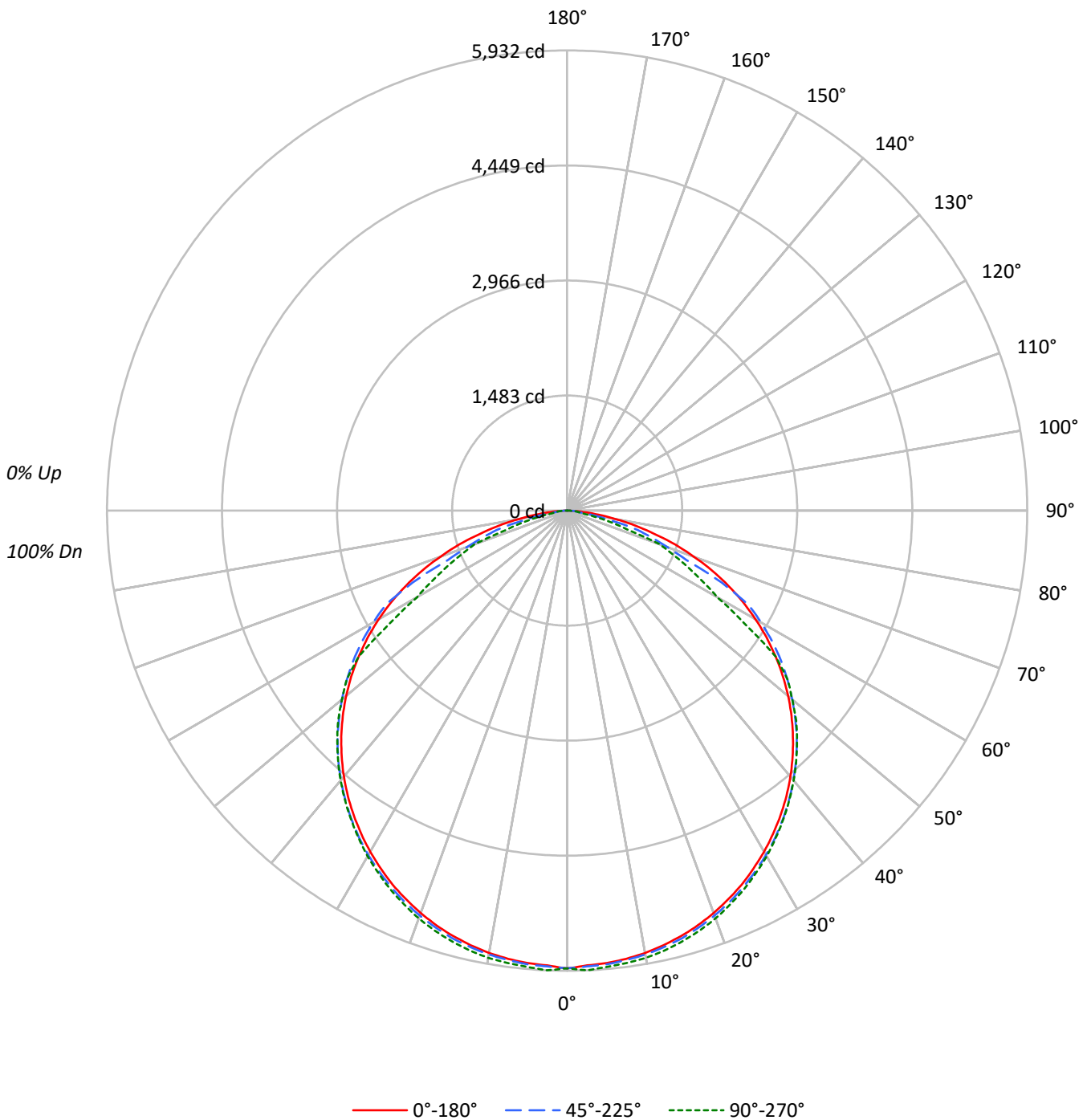
Lumens per Lamp: N/A  
Luminaire Lumens: 17035.0 lumens  
Efficiency: N/A  
Efficacy: 185.6 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 91.8  
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	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

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

	0°	45°	90°
0°	7939	7939	7939
5°	7907	7929	7974
10°	7911	7939	7999
15°	7909	7951	8007
20°	7905	7956	8011
25°	7902	7959	8003
30°	7888	7965	7995
35°	7878	7969	7979
40°	7864	7968	7981
45°	7834	7965	7974
50°	7788	7931	7930
55°	7697	7889	7693
60°	7554	7773	6019
65°	7302	6996	5423
70°	6841	5382	4998
75°	6057	4693	3115
80°	4988	2763	1392
85°	3287	1694	1823



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	559.9	3.3
10°-20°	1615.5	9.5
20°-30°	2476.8	14.5
30°-40°	3037.5	17.8
40°-50°	3225.3	18.9
50°-60°	2946.0	17.3
60°-70°	2051.6	12.0
70°-80°	956.9	5.6
80°-90°	165.5	1.0
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°	4652.2	27.3
0°-40°	7689.8	45.1
0°-60°	13861.1	81.4
0°-90°	17035.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17035.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5901	5901	5901	5901	5901	
5°	5854	5895	5870	5899	5904	557
15°	5678	5718	5708	5743	5748	1603
25°	5323	5370	5361	5401	5391	2453
35°	4796	4852	4852	4884	4858	3001
45°	4117	4180	4186	4213	4191	3175
55°	3281	3347	3363	3369	3280	2930
65°	2294	2364	2197	1747	1704	2263
75°	1165	1239	903	625	599	1246
85°	213	140	110	117	118	275
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5900.8	5900.8	5900.8	5900.8	5900.8
2.5°	5869.6	5907.1	5882.4	5909.3	5931.9
5°	5854.1	5895.1	5870.3	5898.6	5903.6
7.5°	5828.6	5867.5	5844.9	5876.0	5883.8
10°	5790.4	5828.6	5810.9	5847.7	5854.8
12.5°	5738.8	5777.7	5764.2	5804.6	5809.5
15°	5677.9	5717.5	5708.3	5743.0	5748.0
17.5°	5606.5	5647.5	5636.9	5673.7	5677.2
20°	5520.9	5565.4	5556.2	5599.4	5595.2
22.5°	5424.7	5472.1	5465.0	5508.1	5495.4
25°	5322.8	5369.5	5361.0	5400.6	5390.7
27.5°	5203.2	5254.9	5247.1	5285.3	5269.7
30°	5077.3	5129.7	5126.8	5161.5	5145.9
32.5°	4941.5	4997.4	4994.5	5028.5	5004.4
35°	4796.5	4851.6	4851.6	4884.2	4858.0
37.5°	4642.9	4698.8	4699.5	4730.7	4705.9
40°	4477.4	4533.3	4536.8	4566.5	4543.9
42.5°	4303.4	4364.2	4367.0	4393.9	4372.7
45°	4117.3	4179.6	4185.9	4212.8	4190.9
47.5°	3922.8	3985.7	3991.4	4020.4	4004.8
50°	3720.4	3781.3	3789.1	3813.1	3788.3
52.5°	3506.8	3569.0	3579.7	3594.5	3583.2
55°	3281.1	3346.9	3363.2	3368.8	3279.7
57.5°	3047.7	3114.9	3130.4	3000.3	2713.7
60°	2807.1	2873.6	2888.5	2440.7	2236.9
62.5°	2556.7	2621.8	2638.0	2022.6	1957.5
65°	2293.5	2364.3	2197.3	1747.4	1703.5
67.5°	2023.3	2096.1	1661.8	1497.7	1471.5
70°	1738.9	1812.5	1368.2	1276.9	1270.6
72.5°	1465.8	1520.3	1122.7	967.8	815.0
75°	1165.2	1238.7	902.7	625.4	599.2
77.5°	903.4	781.0	544.7	458.4	361.5
80°	643.8	522.1	356.6	190.3	179.7
82.5°	408.2	341.0	140.1	143.6	150.0
85°	212.9	140.1	109.7	117.4	118.1
87.5°	68.6	60.1	65.8	65.1	64.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)