

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-CLI-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 (P23766)
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-CLI-UNV-L750-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

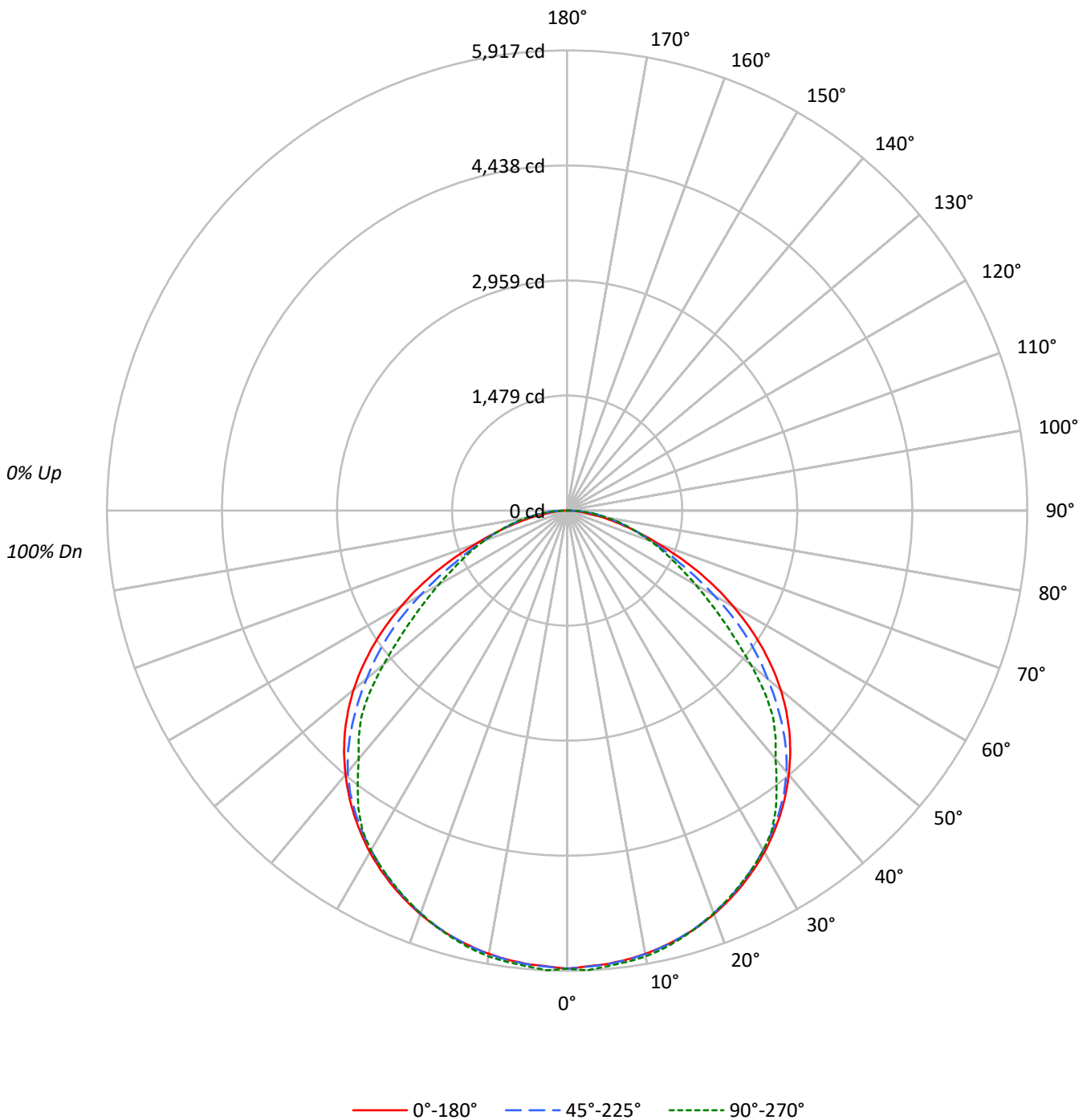
Lumens per Lamp: N/A
Luminaire Lumens: 15825.0 lumens
Efficiency: N/A
Efficacy: 172.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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			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	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7925	7925	7925
5°	7904	7910	7945
10°	7908	7912	7954
15°	7909	7908	7927
20°	7907	7889	7891
25°	7895	7866	7856
30°	7882	7835	7839
35°	7846	7797	7686
40°	7790	7710	7321
45°	7691	7445	7119
50°	7506	7048	6447
55°	7164	6592	5701
60°	6648	5882	5141
65°	5909	5092	4727
70°	4904	4551	4456
75°	3967	4165	4216
80°	3150	3983	3966
85°	2467	4279	4083



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	558.6	3.5
10°-20°	1606.7	10.2
20°-30°	2450.0	15.5
30°-40°	2964.1	18.7
40°-50°	3002.4	19.0
50°-60°	2481.6	15.7
60°-70°	1639.0	10.4
70°-80°	854.6	5.4
80°-90°	267.9	1.7
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°	4615.3	29.2
0°-40°	7579.4	47.9
0°-60°	13063.4	82.5
0°-90°	15825.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15825.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5890	5890	5890	5890	5890	
5°	5852	5887	5856	5882	5882	557
15°	5678	5707	5677	5695	5691	1603
25°	5318	5339	5298	5312	5292	2452
35°	4776	4783	4747	4740	4680	2988
45°	4042	4031	3912	3791	3741	3112
55°	3054	3009	2810	2537	2430	2722
65°	1856	1802	1600	1496	1485	1833
75°	763	776	801	812	811	831
85°	160	206	277	275	264	194
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5890.2	5890.2	5890.2	5890.2	5890.2
2.5°	5865.4	5900.1	5871.1	5896.5	5917.0
5°	5852.0	5887.3	5856.2	5881.7	5882.4
7.5°	5825.8	5861.2	5829.3	5854.8	5854.1
10°	5788.3	5821.6	5791.2	5821.6	5821.6
12.5°	5737.4	5769.9	5740.2	5768.5	5764.3
15°	5678.0	5707.0	5677.3	5695.0	5690.8
17.5°	5608.0	5634.2	5601.0	5615.8	5607.3
20°	5522.5	5546.5	5509.7	5528.8	5511.1
22.5°	5426.3	5448.9	5411.4	5425.6	5405.8
25°	5318.1	5339.3	5298.3	5311.7	5291.9
27.5°	5201.4	5220.5	5174.6	5190.8	5175.3
30°	5073.5	5082.6	5043.0	5064.3	5045.9
32.5°	4930.6	4936.3	4901.6	4920.7	4889.6
35°	4776.5	4782.8	4746.8	4740.4	4679.6
37.5°	4611.7	4614.5	4580.6	4523.3	4422.9
40°	4434.9	4433.5	4389.7	4257.5	4168.4
42.5°	4246.1	4245.4	4168.4	4017.8	3966.8
45°	4041.8	4031.2	3912.4	3790.8	3741.3
47.5°	3822.6	3811.3	3645.1	3548.2	3435.8
50°	3585.7	3565.9	3367.2	3235.0	3080.1
52.5°	3330.4	3300.0	3097.8	2884.3	2737.9
55°	3054.0	3008.7	2810.0	2537.1	2430.3
57.5°	2766.2	2699.0	2506.0	2240.1	2153.1
60°	2470.6	2395.7	2185.7	1967.2	1910.6
62.5°	2166.6	2092.3	1878.1	1713.3	1682.2
65°	1856.1	1802.4	1599.5	1495.5	1484.9
67.5°	1537.9	1518.9	1364.0	1311.0	1306.7
70°	1246.6	1243.1	1156.8	1129.9	1132.8
72.5°	996.3	992.1	979.3	965.9	966.6
75°	763.0	776.4	801.1	811.8	811.0
77.5°	569.2	596.8	649.1	670.3	666.8
80°	406.6	447.6	514.1	533.9	511.9
82.5°	270.8	314.0	392.4	395.3	377.6
85°	159.8	205.8	277.2	275.1	264.5
87.5°	79.2	123.7	166.2	159.1	152.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)