

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-WG-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 (P33336)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-15SE-W-WG-UNV-L750-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

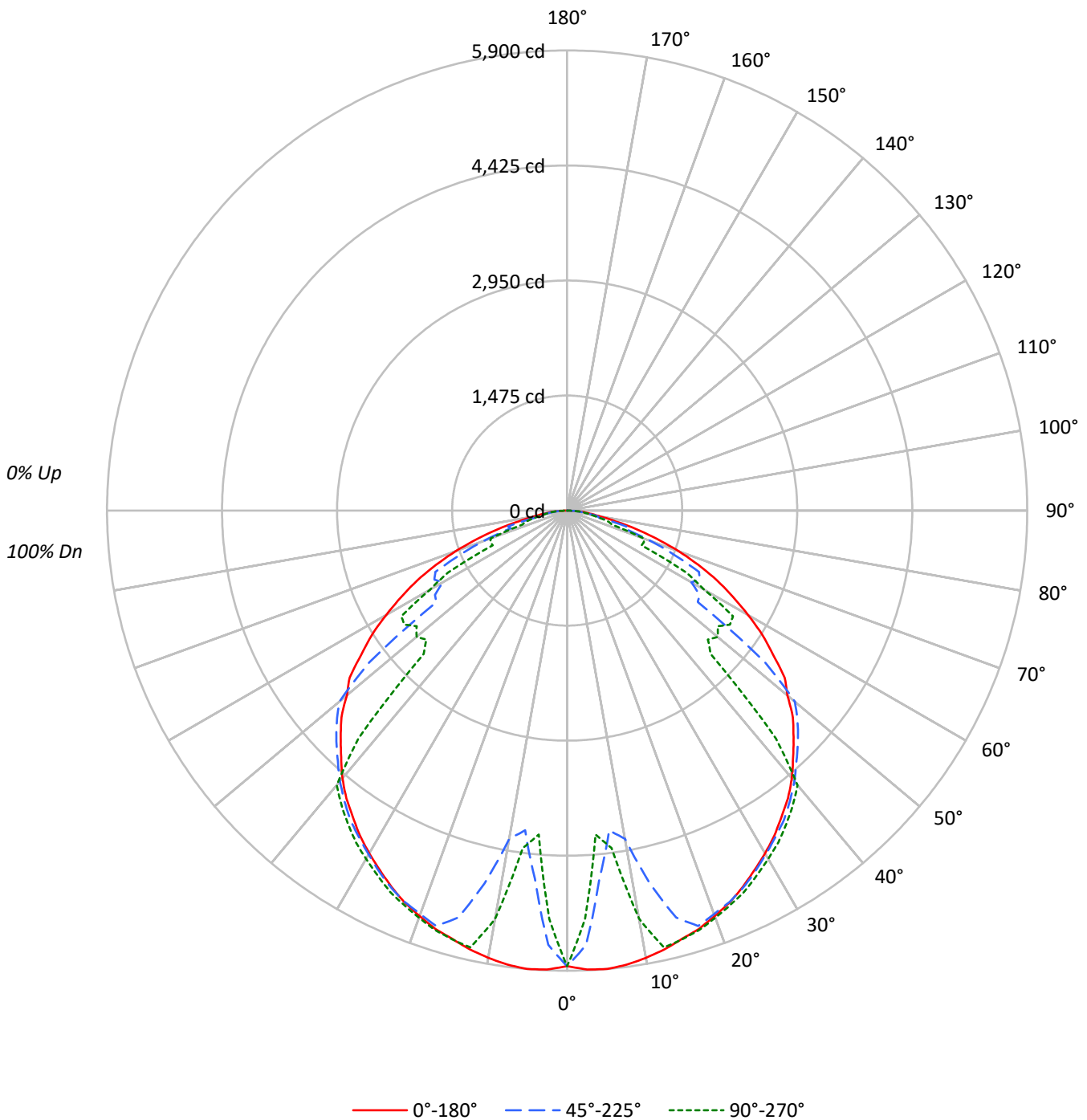
Lumens per Lamp: N/A
Luminaire Lumens: 15476.0 lumens
Efficiency: N/A
Efficacy: 162.6 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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



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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	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7860	7860	7860
5°	7969	6402	5630
10°	7955	5839	7262
15°	7920	7525	7927
20°	7920	7884	7954
25°	7906	7924	7996
30°	7883	7909	8011
35°	7871	7958	8051
40°	7872	7958	8072
45°	7810	7963	4948
50°	7722	7979	5274
55°	7559	4798	5978
60°	7210	4945	5474
65°	6756	5938	3349
70°	5966	4498	4105
75°	4754	4089	2847
80°	3274	2955	2446
85°	3138	2728	2587



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	467.1	3.0
10°-20°	1463.5	9.5
20°-30°	2407.7	15.6
30°-40°	3027.3	19.6
40°-50°	2969.1	19.2
50°-60°	2460.0	15.9
60°-70°	1735.1	11.2
70°-80°	757.0	4.9
80°-90°	189.1	1.2
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°	4338.3	28.0
0°-40°	7365.6	47.6
0°-60°	12794.7	82.7
0°-90°	15476.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15476.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5842	5842	5842	5842	5842	
5°	5900	5492	4740	4298	4169	560
15°	5686	3949	5402	5708	5691	1608
25°	5326	4873	5337	5373	5386	2455
35°	4792	4789	4845	4877	4902	3002
45°	4104	4117	4185	3706	2601	3168
55°	3222	3328	2045	2325	2548	2883
65°	2122	2247	1865	1435	1052	2087
75°	914	896	786	514	548	981
85°	203	181	177	169	168	211
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5841.7	5841.7	5841.7	5841.7	5841.7
2.5°	5889.9	5767.6	5573.5	5329.0	5242.4
5°	5900.4	5491.7	4740.1	4298.0	4168.7
7.5°	5870.3	4990.9	4132.4	4225.3	4362.2
10°	5822.8	4550.8	4273.5	5027.9	5315.0
12.5°	5762.1	4159.7	4895.9	5679.6	5736.9
15°	5685.9	3948.7	5402.3	5708.3	5690.8
17.5°	5621.7	4072.3	5583.9	5651.0	5638.4
20°	5531.5	4318.9	5506.4	5560.2	5555.3
22.5°	5440.7	4610.9	5433.1	5471.5	5471.5
25°	5325.5	4872.8	5337.4	5373.0	5386.3
27.5°	5199.1	5023.7	5217.9	5247.3	5271.0
30°	5074.0	5045.4	5090.8	5128.5	5156.4
32.5°	4942.0	4930.8	4966.4	5006.3	5041.9
35°	4791.8	4789.0	4844.9	4877.0	4901.5
37.5°	4650.7	4640.9	4692.6	4737.3	4756.2
40°	4481.7	4481.7	4530.6	4576.0	4595.5
42.5°	4288.9	4316.1	4353.8	4400.6	3963.4
45°	4104.5	4117.1	4184.8	3706.3	2600.6
47.5°	3927.1	3943.1	4007.4	2382.6	2447.6
50°	3688.9	3761.5	3811.8	2375.7	2519.5
52.5°	3514.9	3546.4	3199.9	2351.9	2432.9
55°	3222.3	3327.7	2045.3	2325.4	2548.2
57.5°	2972.2	3049.0	2011.0	2382.6	2520.9
60°	2679.5	2796.9	1837.8	2298.8	2034.1
62.5°	2398.7	2510.5	1918.8	1809.2	1722.5
65°	2122.1	2247.1	1865.0	1434.8	1052.0
67.5°	1818.9	1702.3	1487.8	1010.8	1063.8
70°	1516.5	1188.9	1143.5	1130.2	1043.6
72.5°	1205.6	867.6	759.3	848.0	607.0
75°	914.4	896.2	786.5	514.1	547.6
77.5°	634.3	646.8	421.2	501.5	416.3
80°	422.6	366.0	381.4	319.9	315.7
82.5°	292.7	299.0	250.8	243.1	246.6
85°	203.3	180.9	176.7	169.0	167.6
87.5°	67.8	78.9	73.3	66.4	70.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)