

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-CL-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 (P23762)
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-CL-UNV-L750-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

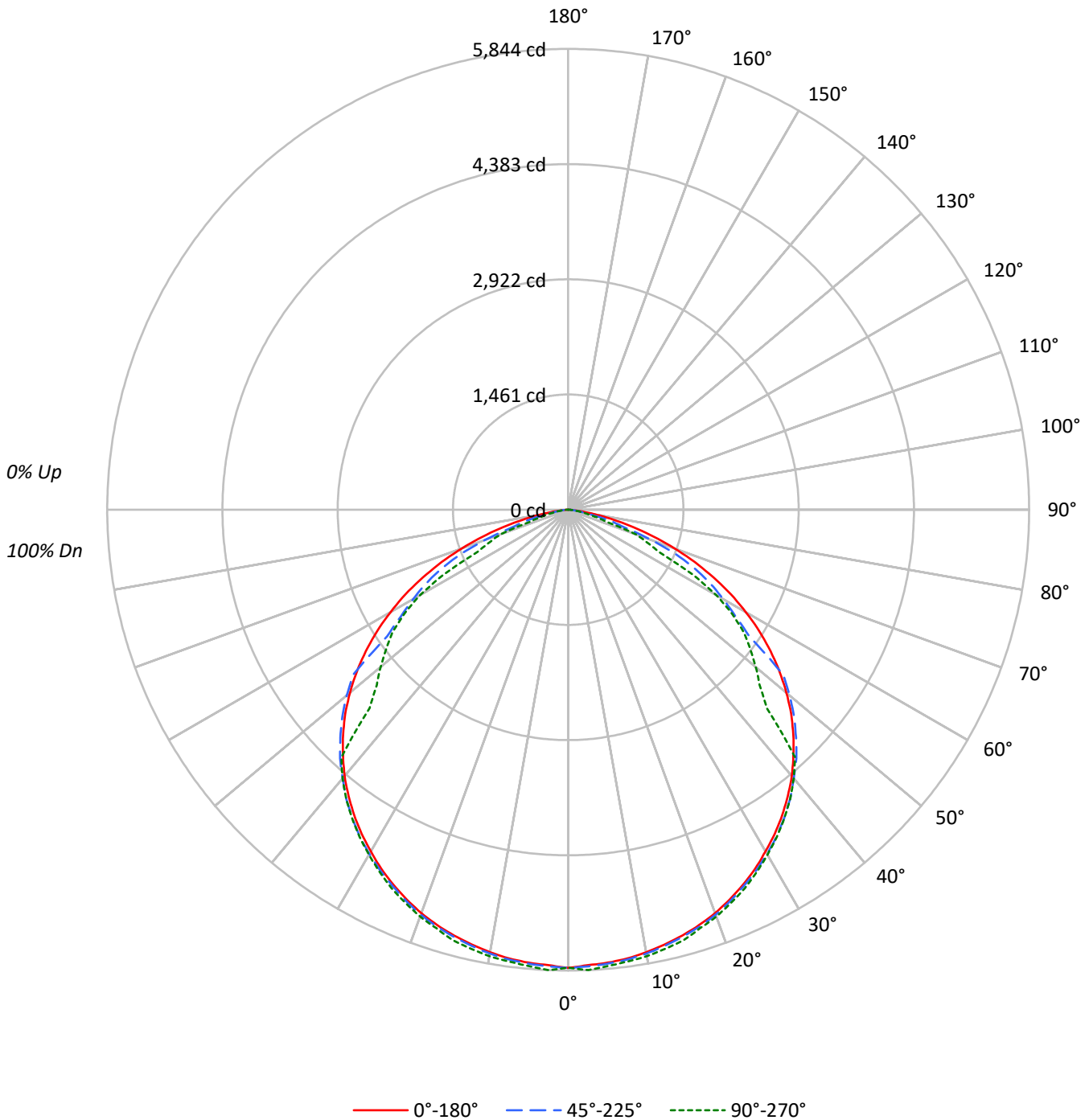
Lumens per Lamp: N/A
Luminaire Lumens: 15706.0 lumens
Efficiency: N/A
Efficacy: 171.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7817	7817	7817
5°	7788	7806	7844
10°	7787	7810	7855
15°	7787	7811	7874
20°	7797	7826	7863
25°	7788	7817	7865
30°	7773	7830	7848
35°	7770	7840	7846
40°	7745	7814	7814
45°	7679	7772	6772
50°	7560	7674	6497
55°	7346	6569	6382
60°	7001	6106	5831
65°	6475	5668	4038
70°	5638	4411	3598
75°	4453	2960	1934
80°	2867	1414	1206
85°	1179	863	949



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	551.1	3.5
10°-20°	1588.4	10.1
20°-30°	2435.3	15.5
30°-40°	2984.8	19.0
40°-50°	3068.7	19.5
50°-60°	2619.0	16.7
60°-70°	1731.4	11.0
70°-80°	641.5	4.1
80°-90°	85.8	0.5
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°	4574.8	29.1
0°-40°	7559.7	48.1
0°-60°	13247.3	84.3
0°-90°	15706.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15706.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5810	5810	5810	5810	5810	
5°	5766	5807	5779	5802	5808	548
15°	5590	5624	5607	5650	5653	1579
25°	5246	5273	5266	5313	5298	2419
35°	4730	4763	4773	4803	4777	2959
45°	4036	4076	4084	4078	3559	3110
55°	3132	3189	2800	2719	2720	2794
65°	2034	2051	1780	1464	1268	2005
75°	857	750	569	383	372	919
85°	76	54	56	61	62	126
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5809.6	5809.6	5809.6	5809.6	5809.6
2.5°	5781.3	5817.4	5796.2	5823.0	5843.5
5°	5766.4	5806.8	5779.2	5801.8	5807.5
7.5°	5741.0	5778.5	5753.0	5782.7	5778.5
10°	5699.9	5733.9	5716.2	5747.3	5749.5
12.5°	5647.6	5681.6	5665.3	5703.5	5702.8
15°	5590.3	5624.3	5607.3	5649.7	5652.6
17.5°	5523.1	5554.2	5541.5	5580.4	5564.8
20°	5445.3	5472.2	5465.8	5502.6	5491.3
22.5°	5349.8	5377.4	5371.0	5413.5	5396.5
25°	5245.8	5273.4	5265.6	5313.0	5297.5
27.5°	5133.3	5159.5	5158.8	5203.4	5179.3
30°	5003.2	5037.9	5040.0	5079.6	5051.3
32.5°	4874.5	4907.0	4916.2	4945.2	4921.1
35°	4730.2	4762.7	4773.3	4803.0	4776.8
37.5°	4574.5	4602.1	4621.2	4643.1	4622.6
40°	4409.7	4434.5	4448.6	4475.5	4448.6
42.5°	4225.8	4261.2	4281.0	4300.1	4256.2
45°	4035.5	4075.8	4084.3	4078.0	3558.8
47.5°	3833.9	3877.8	3882.7	3386.2	3290.7
50°	3611.8	3667.0	3666.3	3129.4	3103.9
52.5°	3380.5	3433.6	3431.4	2928.5	2911.5
55°	3131.5	3188.8	2800.5	2719.1	2720.5
57.5°	2877.6	2918.6	2512.6	2516.1	2469.4
60°	2601.7	2640.6	2269.2	2247.3	2166.7
62.5°	2325.1	2341.4	2033.7	1926.9	1773.4
65°	2033.7	2050.7	1780.4	1464.2	1268.3
67.5°	1734.5	1751.4	1477.7	1089.3	1074.5
70°	1433.1	1294.5	1121.2	907.5	914.6
72.5°	1136.0	994.6	732.8	703.1	507.9
75°	856.6	750.5	569.4	382.7	372.1
77.5°	596.3	517.1	304.9	261.0	244.0
80°	370.0	259.6	182.5	162.0	155.6
82.5°	187.5	149.3	99.0	99.0	99.0
85°	76.4	54.5	55.9	60.8	61.5
87.5°	16.3	21.9	26.9	27.6	26.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)