

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

Luminaire Equipment: Sample No. Condition Description

Summary

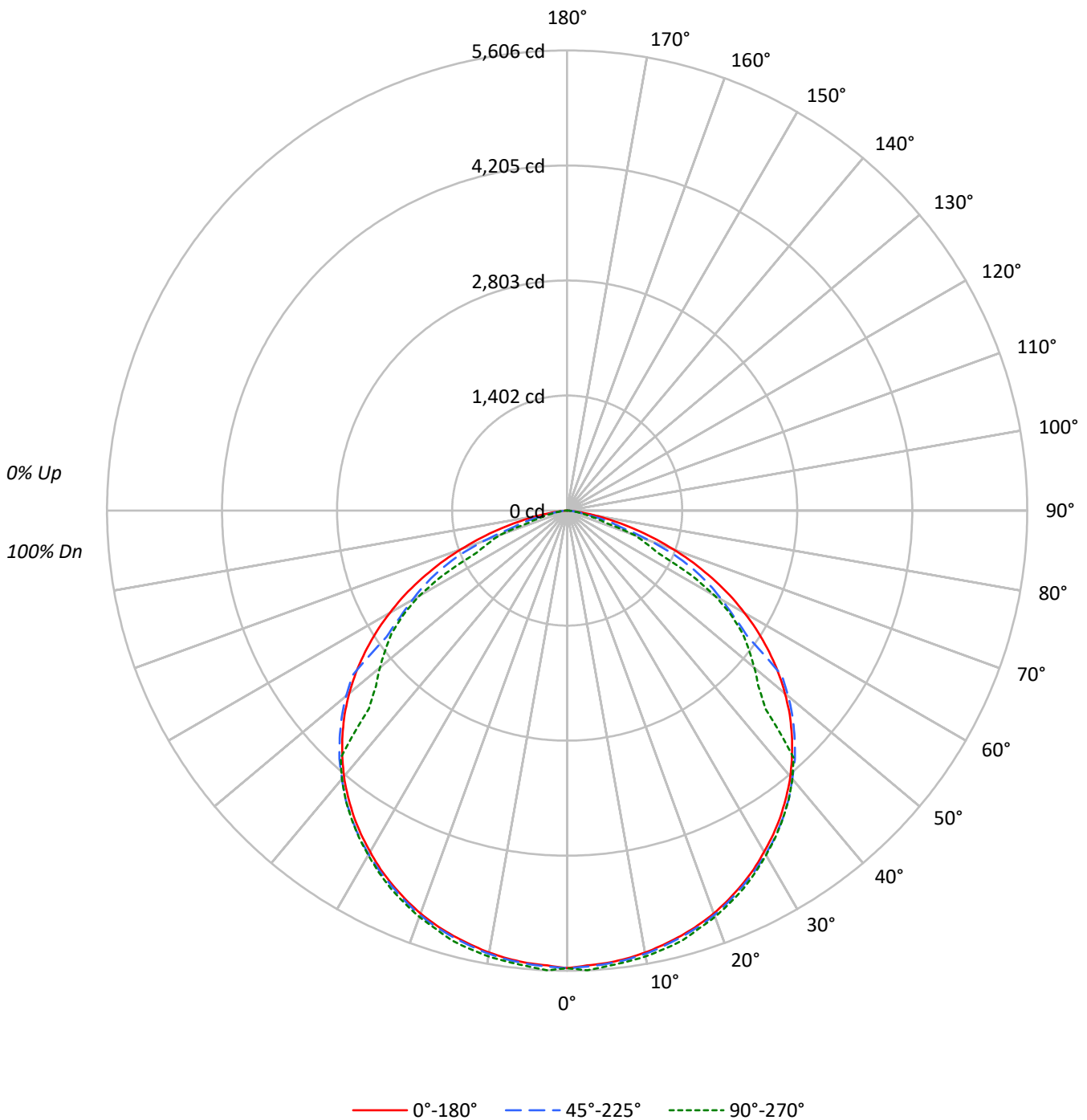
Lumens per Lamp: N/A
Luminaire Lumens: 15067.0 lumens
Efficiency: N/A
Efficacy: 158.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	7499	7499	7499
5°	7471	7488	7525
10°	7471	7492	7536
15°	7470	7493	7553
20°	7480	7508	7543
25°	7471	7499	7545
30°	7457	7512	7529
35°	7453	7521	7527
40°	7430	7496	7496
45°	7366	7456	6496
50°	7253	7362	6233
55°	7047	6302	6122
60°	6716	5858	5593
65°	6211	5438	3874
70°	5408	4231	3452
75°	4272	2840	1855
80°	2750	1357	1157
85°	1132	827	911



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	528.7	3.5
10°-20°	1523.8	10.1
20°-30°	2336.2	15.5
30°-40°	2863.4	19.0
40°-50°	2943.8	19.5
50°-60°	2512.4	16.7
60°-70°	1661.0	11.0
70°-80°	615.4	4.1
80°-90°	82.3	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°	4388.7	29.1
0°-40°	7252.1	48.1
0°-60°	12708.3	84.3
0°-90°	15067.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15067.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5573	5573	5573	5573	5573	
5°	5532	5570	5544	5566	5571	526
15°	5363	5395	5379	5420	5423	1515
25°	5032	5059	5051	5097	5082	2320
35°	4538	4569	4579	4608	4582	2838
45°	3871	3910	3918	3912	3414	2983
55°	3004	3059	2686	2608	2610	2680
65°	1951	1967	1708	1405	1217	1924
75°	822	720	546	367	357	882
85°	73	52	54	58	59	121
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5573.2	5573.2	5573.2	5573.2	5573.2
2.5°	5546.1	5580.7	5560.3	5586.1	5605.8
5°	5531.8	5570.5	5544.0	5565.8	5571.2
7.5°	5507.4	5543.4	5518.9	5547.4	5543.4
10°	5468.0	5500.6	5483.7	5513.5	5515.5
12.5°	5417.8	5450.4	5434.8	5471.4	5470.8
15°	5362.9	5395.4	5379.2	5419.9	5422.6
17.5°	5298.4	5328.3	5316.0	5353.4	5338.4
20°	5223.8	5249.5	5243.4	5278.7	5267.9
22.5°	5132.1	5158.6	5152.5	5193.2	5176.9
25°	5032.4	5058.9	5051.4	5096.9	5081.9
27.5°	4924.5	4949.6	4948.9	4991.7	4968.6
30°	4799.6	4832.9	4834.9	4872.9	4845.8
32.5°	4676.1	4707.4	4716.2	4744.0	4720.9
35°	4537.7	4568.9	4579.1	4607.6	4582.5
37.5°	4388.4	4414.9	4433.2	4454.2	4434.6
40°	4230.3	4254.1	4267.6	4293.4	4267.6
42.5°	4053.9	4087.8	4106.8	4125.1	4083.1
45°	3871.3	3910.0	3918.2	3912.0	3414.0
47.5°	3677.9	3720.0	3724.8	3248.4	3156.8
50°	3464.9	3517.8	3517.1	3002.1	2977.6
52.5°	3243.0	3293.9	3291.8	2809.3	2793.1
55°	3004.1	3059.1	2686.5	2608.5	2609.8
57.5°	2760.5	2799.8	2410.3	2413.7	2368.9
60°	2495.8	2533.2	2176.9	2155.9	2078.5
62.5°	2230.5	2246.1	1950.9	1848.5	1701.2
65°	1950.9	1967.2	1708.0	1404.7	1216.7
67.5°	1663.9	1680.2	1417.6	1045.0	1030.8
70°	1374.8	1241.8	1075.6	870.6	877.4
72.5°	1089.8	954.1	703.0	674.5	487.2
75°	821.8	720.0	546.3	367.1	356.9
77.5°	572.0	496.0	292.5	250.4	234.1
80°	354.9	249.0	175.1	155.4	149.3
82.5°	179.8	143.2	95.0	95.0	95.0
85°	73.3	52.3	53.6	58.4	59.0
87.5°	15.6	21.0	25.8	26.5	25.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)