

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-N-CLI-UNV-L850-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 (P23769)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-15SE-N-CLI-UNV-L850-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

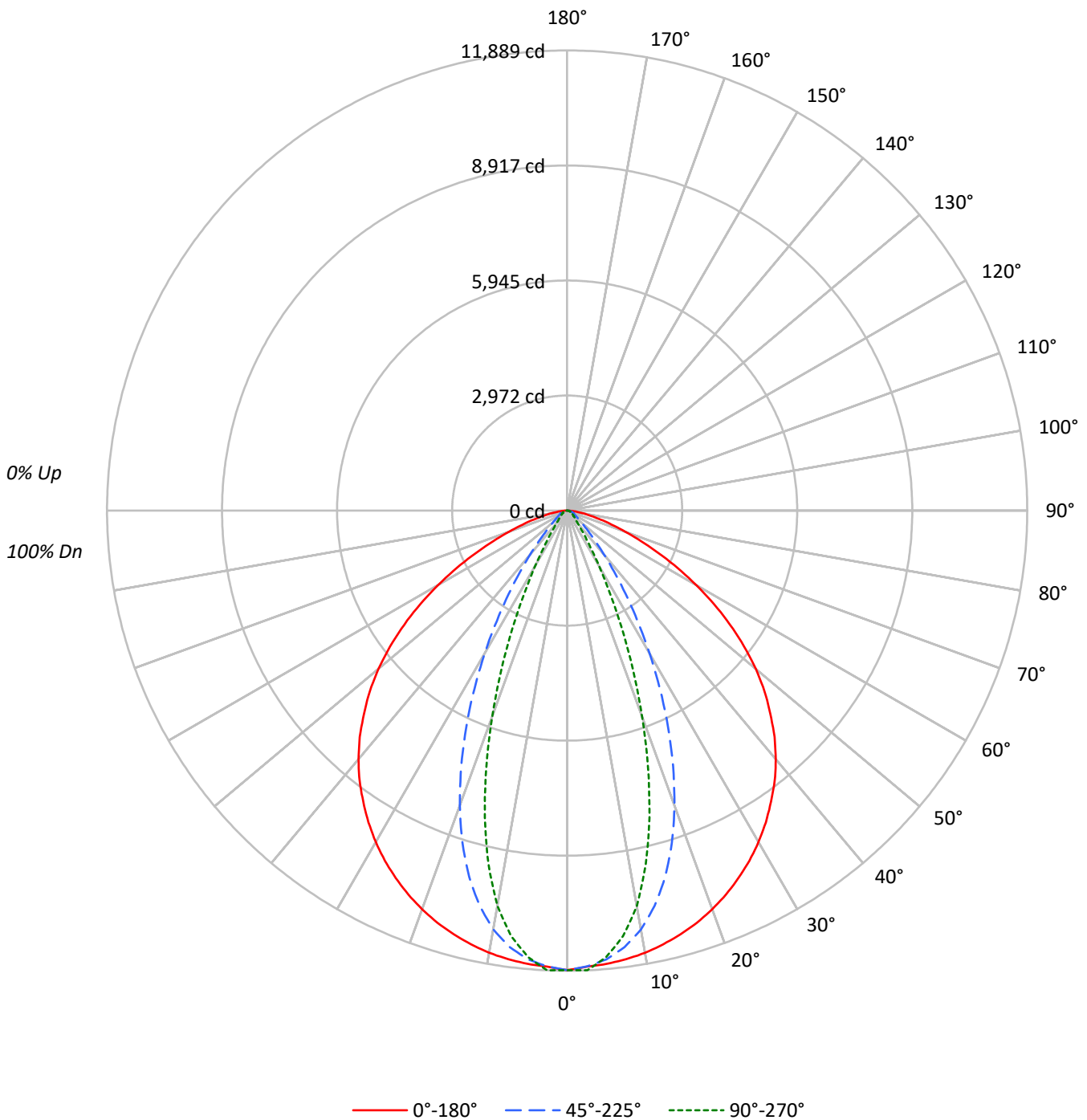
Lumens per Lamp: N/A
Luminaire Lumens: 12998.0 lumens
Efficiency: N/A
Efficacy: 136.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15975	15975	15975
5°	15879	15721	15638
10°	15852	15009	14163
15°	15788	13643	11438
20°	15694	11609	8107
25°	15553	9154	4898
30°	15364	6607	2517
35°	15087	4319	1257
40°	14729	2594	734
45°	14117	1549	549
50°	13315	1013	461
55°	12051	769	402
60°	10356	655	367
65°	8330	597	346
70°	6275	640	344
75°	4616	608	355
80°	3378	606	387
85°	2529	733	502



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1093.4	8.4
10°-20°	2720.2	20.9
20°-30°	3013.0	23.2
30°-40°	2413.9	18.6
40°-50°	1723.2	13.3
50°-60°	1106.9	8.5
60°-70°	599.8	4.6
70°-80°	256.4	2.0
80°-90°	71.1	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°	6826.6	52.5
0°-40°	9240.5	71.1
0°-60°	12070.7	92.9
0°-90°	12998.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12998.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11873	11873	11873	11873	11873	
5°	11756	11800	11640	11603	11578	###
15°	11334	10980	9794	8655	8211	3198
25°	10476	9238	6166	4017	3299	4826
35°	9185	6644	2630	1061	765	5743
45°	7419	3835	814	346	288	5718
55°	5137	1715	328	201	171	4578
65°	2616	704	188	129	109	2620
75°	888	258	117	81	68	987
85°	164	68	48	39	32	200
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11872.7	11872.7	11872.7	11872.7	11872.7
2.5°	11794.6	11868.4	11788.9	11838.3	11889.0
5°	11756.4	11800.2	11639.5	11602.6	11578.2
7.5°	11690.1	11677.6	11375.6	11179.9	11085.4
10°	11602.6	11501.3	10985.4	10555.1	10366.3
12.5°	11477.5	11268.7	10457.0	9701.5	9381.4
15°	11334.3	10979.7	9794.1	8655.4	8211.4
17.5°	11163.0	10642.1	9001.8	7533.5	6947.5
20°	10960.4	10234.3	8107.6	6341.6	5661.8
22.5°	10734.0	9764.1	7150.2	5153.4	4424.3
25°	10476.3	9237.5	6165.9	4017.2	3299.3
27.5°	10198.1	8652.9	5187.2	3001.6	2346.9
30°	9889.2	8020.0	4252.3	2164.3	1620.3
32.5°	9552.1	7347.1	3383.7	1522.1	1108.1
35°	9185.0	6643.6	2629.6	1060.6	765.4
37.5°	8809.2	5925.7	1986.1	749.8	549.0
40°	8385.8	5210.3	1477.1	549.0	417.7
42.5°	7931.2	4508.7	1093.1	422.7	338.3
45°	7419.1	3835.2	814.2	346.4	288.3
47.5°	6922.5	3207.4	618.5	295.2	250.8
50°	6361.0	2640.8	484.0	257.6	220.1
52.5°	5765.0	2142.4	392.7	227.0	193.9
55°	5137.2	1714.7	327.7	201.4	171.3
57.5°	4501.2	1358.2	280.2	179.5	152.6
60°	3848.4	1086.2	243.3	160.7	136.3
62.5°	3211.1	868.6	212.6	144.5	121.9
65°	2616.4	704.1	187.6	129.4	108.8
67.5°	2066.8	556.6	175.1	116.3	98.2
70°	1595.2	433.4	162.6	103.8	87.5
72.5°	1208.8	332.7	143.8	92.6	77.5
75°	888.0	257.6	116.9	81.3	68.2
77.5°	635.3	198.2	95.1	70.7	58.8
80°	435.9	147.6	78.2	60.7	50.0
82.5°	283.3	104.4	63.2	50.0	41.3
85°	163.8	68.2	47.5	39.4	32.5
87.5°	70.7	37.5	32.5	29.4	25.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)