

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-L835-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-L835-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

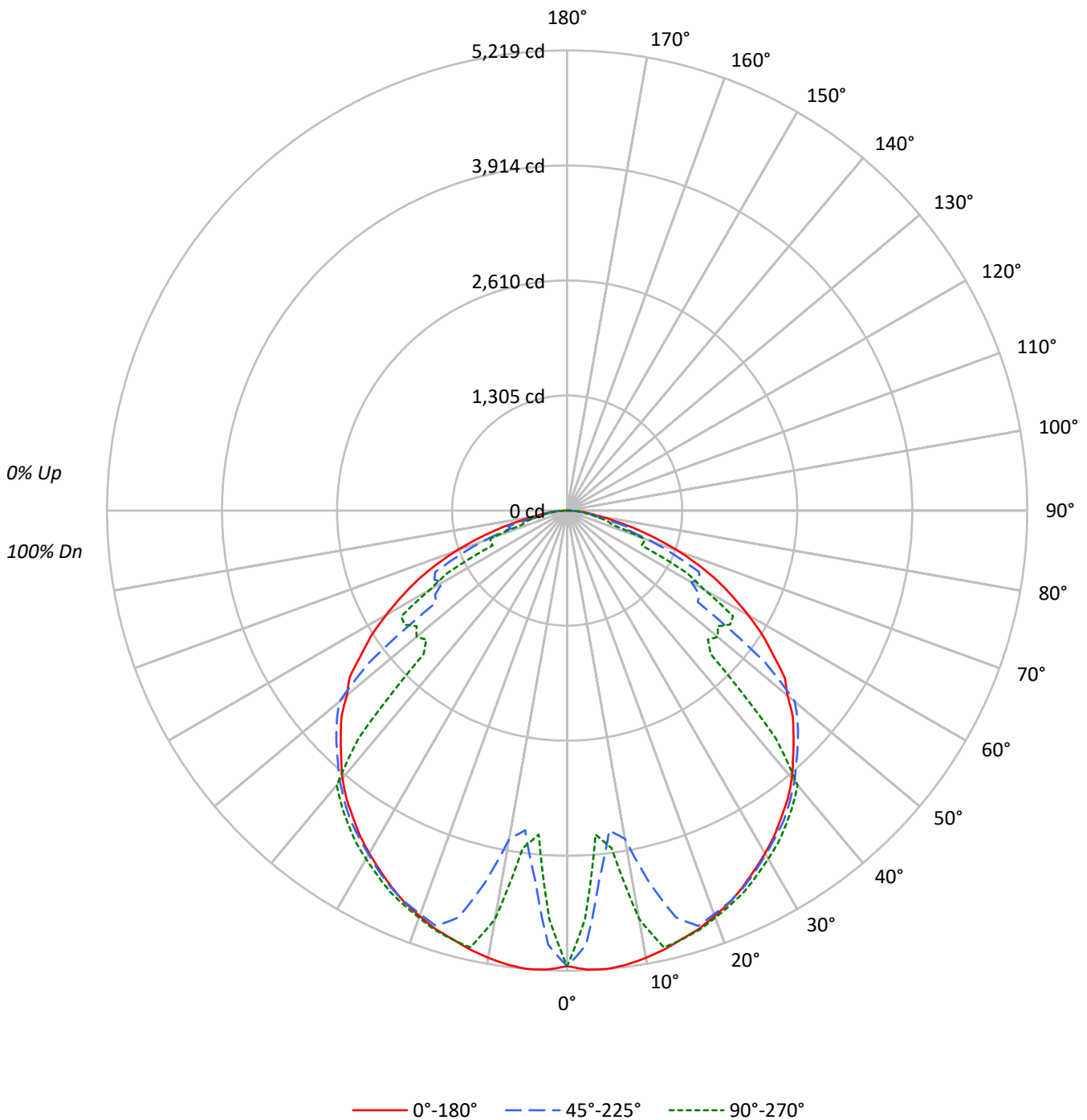
Lumens per Lamp: N/A
Luminaire Lumens: 13690.0 lumens
Efficiency: N/A
Efficacy: 143.8 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	6953	6953	6953
5°	7049	5663	4981
10°	7037	5165	6424
15°	7006	6657	7012
20°	7006	6974	7036
25°	6994	7009	7074
30°	6974	6996	7087
35°	6962	7040	7122
40°	6963	7039	7140
45°	6909	7044	4377
50°	6831	7058	4665
55°	6686	4244	5288
60°	6378	4375	4842
65°	5976	5252	2963
70°	5277	3979	3631
75°	4205	3617	2518
80°	2896	2614	2164
85°	2776	2413	2289



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.2	3.0
10°-20°	1294.6	9.5
20°-30°	2129.8	15.6
30°-40°	2678.0	19.6
40°-50°	2626.4	19.2
50°-60°	2176.1	15.9
60°-70°	1534.9	11.2
70°-80°	669.7	4.9
80°-90°	167.3	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°	3837.6	28.0
0°-40°	6515.6	47.6
0°-60°	11318.2	82.7
0°-90°	13690.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13690.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5168	5168	5168	5168	5168	
5°	5219	4858	4193	3802	3688	496
15°	5030	3493	4779	5050	5034	1422
25°	4711	4310	4721	4753	4765	2171
35°	4239	4236	4286	4314	4336	2656
45°	3631	3642	3702	3279	2300	2803
55°	2850	2944	1809	2057	2254	2550
65°	1877	1988	1650	1269	931	1846
75°	809	793	696	455	484	867
85°	180	160	156	150	148	186
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5167.5	5167.5	5167.5	5167.5	5167.5
2.5°	5210.2	5102.0	4930.3	4714.0	4637.4
5°	5219.4	4858.0	4193.1	3802.0	3687.7
7.5°	5192.9	4414.9	3655.5	3737.7	3858.8
10°	5150.8	4025.6	3780.3	4447.7	4701.6
12.5°	5097.1	3679.6	4330.9	5024.2	5074.8
15°	5029.7	3493.0	4778.9	5049.5	5034.1
17.5°	4972.9	3602.4	4939.5	4998.8	4987.7
20°	4893.2	3820.5	4870.9	4918.5	4914.2
22.5°	4812.9	4078.8	4806.1	4840.0	4840.0
25°	4710.9	4310.5	4721.4	4752.9	4764.7
27.5°	4599.1	4444.0	4615.7	4641.7	4662.7
30°	4488.5	4463.1	4503.3	4536.7	4561.4
32.5°	4371.7	4361.8	4393.3	4428.5	4460.0
35°	4238.8	4236.3	4285.8	4314.2	4335.8
37.5°	4114.0	4105.4	4151.1	4190.6	4207.3
40°	3964.5	3964.5	4007.7	4047.9	4065.2
42.5°	3793.9	3818.0	3851.4	3892.8	3506.0
45°	3630.8	3641.9	3701.9	3278.6	2300.5
47.5°	3473.9	3488.1	3544.9	2107.7	2165.1
50°	3263.2	3327.4	3371.9	2101.5	2228.8
52.5°	3109.3	3137.1	2830.6	2080.5	2152.2
55°	2850.4	2943.7	1809.2	2057.0	2254.1
57.5°	2629.2	2697.2	1778.9	2107.7	2230.0
60°	2370.3	2474.1	1625.7	2033.5	1799.3
62.5°	2121.9	2220.7	1697.4	1600.4	1523.8
65°	1877.2	1987.8	1649.8	1269.2	930.6
67.5°	1609.0	1505.8	1316.1	894.1	941.1
70°	1341.5	1051.7	1011.5	999.8	923.1
72.5°	1066.5	767.4	671.7	750.1	537.0
75°	808.8	792.8	695.8	454.8	484.4
77.5°	561.1	572.2	372.6	443.7	368.3
80°	373.8	323.8	337.4	283.0	279.3
82.5°	258.9	264.5	221.8	215.0	218.1
85°	179.8	160.0	156.3	149.5	148.3
87.5°	59.9	69.8	64.9	58.7	62.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)