

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: P231413

Luminaire Tested: **SSLED-LD5-18-W-UNV-L835-CD1-U-FRR22**

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: P231413
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1708-240-2)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: SSLED-LD5-18-W-UNV-L835-CD1-U-FRR22
Description: STEELER WHITE REFRACTOR LENS
Light Source: (240) 3500 CCT, 80 CRI LEDS
Ballast/Driver: (1) ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16759.0 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.43 / 1.45
Luminous Opening: Vertical Cylinder (Dia: 1.83' x H: 1')
CIE Type: Direct

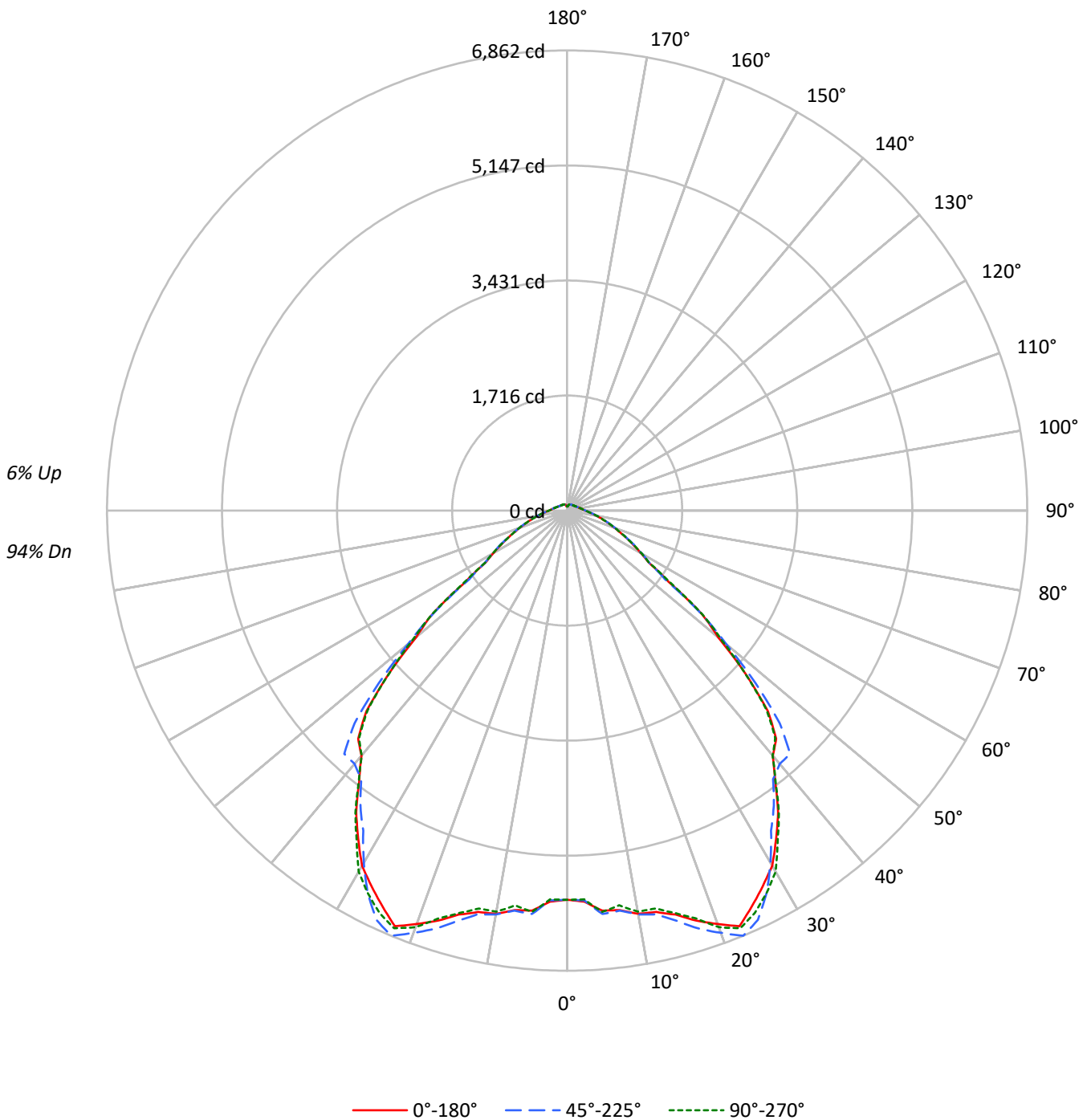
Input Watts (W): 133.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	109	104	100	97	105	101	98	95	96	93	91	91	89	87	87	85	84	81
2	100	93	87	81	97	90	85	80	86	81	77	82	78	75	78	75	72	70
3	92	83	75	69	89	81	74	69	77	71	67	74	69	65	70	66	63	61
4	85	74	66	60	82	72	65	59	69	63	58	66	61	57	64	59	55	53
5	79	67	59	53	76	65	58	52	63	56	51	60	55	50	58	53	49	47
6	73	61	52	46	71	59	52	46	57	50	45	55	49	44	53	48	44	42
7	68	55	47	41	66	54	47	41	52	45	40	50	44	40	49	43	39	37
8	63	51	43	37	61	50	42	37	48	41	36	46	40	36	45	39	35	33
9	59	47	39	34	58	46	38	33	44	38	33	43	37	32	41	36	32	30
10	55	43	35	31	54	42	35	30	41	34	30	40	34	30	38	33	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23662	23662	23662
5°	23104	23299	23178
10°	22519	22558	22404
15°	22197	22549	22110
20°	22720	23210	22897
25°	22142	22882	22499
30°	20555	20380	20899
35°	18368	17999	18438
40°	16046	16589	16034
45°	14406	15266	14324
50°	10218	10760	10468
55°	6593	6354	6729
60°	4706	4770	4770
65°	3813	3857	3817
70°	3077	3127	3109
75°	2527	2565	2535
80°	2108	2133	2129
85°	1780	1812	1794



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	572.4	3.4
10°-20°	1802.7	10.8
20°-30°	3049.6	18.2
30°-40°	3410.0	20.3
40°-50°	3222.9	19.2
50°-60°	1771.6	10.6
60°-70°	991.5	5.9
70°-80°	623.6	3.7
80°-90°	380.0	2.3
90°-100°	253.7	1.5
100°-110°	189.1	1.1
110°-120°	144.7	0.9
120°-130°	112.9	0.7
130°-140°	88.6	0.5
140°-150°	67.8	0.4
150°-160°	47.1	0.3
160°-170°	24.4	0.1
170°-180°	6.2	0.0
0°-30°	5424.8	32.4
0°-40°	8834.8	52.7
0°-60°	13829.3	82.5
0°-90°	15824.4	94.4
90°-120°	587.5	3.5
90°-150°	856.8	5.1
90°-180°	935.0	5.6
0°-180°	16759.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5803	5803	5803	5803	5803	
5°	5988	5998	6038	5999	6007	572
15°	6237	6295	6336	6266	6212	1787
25°	6515	6748	6733	6842	6620	2987
35°	5484	5368	5374	5386	5505	3410
45°	4233	4197	4486	4160	4209	3140
55°	1847	1836	1780	1866	1885	1763
65°	984	987	995	990	985	981
75°	576	580	585	583	578	617
85°	340	341	346	342	343	299
90°	268	271	272	272	270	148
95°	228	230	232	231	230	181
105°	177	177	178	178	178	188
115°	144	145	145	146	146	144
125°	124	125	125	126	126	112
135°	114	114	114	114	114	88
145°	108	108	108	108	108	68
155°	102	102	102	102	102	47
165°	86	86	85	85	85	25
175°	62	62	62	62	62	6
180°	64	64	64	64	64	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5802.9	5802.9	5802.9	5802.9	5802.9
2.5°	5836.7	5832.4	5816.8	5802.0	5802.9
5°	5987.7	5998.1	6038.0	5999.0	6006.8
7.5°	6008.5	6032.8	6017.2	5984.3	5937.4
10°	6104.9	6113.5	6115.3	6097.9	6073.6
12.5°	6130.9	6210.7	6165.6	6150.0	6077.1
15°	6236.7	6294.9	6335.7	6266.2	6212.4
17.5°	6412.9	6511.8	6537.8	6508.3	6373.8
20°	6559.5	6697.5	6700.9	6714.0	6610.7
22.5°	6709.6	6839.8	6862.3	6886.6	6741.7
25°	6515.3	6747.8	6733.0	6842.4	6620.2
27.5°	6315.7	6483.2	6438.9	6563.0	6434.6
30°	6116.1	6153.4	6064.1	6190.8	6218.5
32.5°	5799.4	5685.8	5660.6	5735.2	5842.0
35°	5484.5	5368.2	5374.3	5385.6	5505.3
37.5°	5094.9	5213.8	5045.4	5245.9	5106.2
40°	4771.3	4954.3	4932.6	4961.3	4767.8
42.5°	4613.3	4604.7	4920.5	4610.7	4591.7
45°	4233.3	4196.9	4485.8	4159.6	4209.0
47.5°	3614.7	3848.1	3812.5	3849.8	3611.2
50°	2944.0	3172.2	3100.1	3228.6	3016.0
52.5°	2533.6	2421.6	2503.2	2456.3	2544.0
55°	1847.2	1836.0	1780.4	1866.3	1885.4
57.5°	1443.8	1451.6	1457.7	1452.5	1449.0
60°	1271.1	1289.3	1288.5	1287.6	1288.5
62.5°	1116.7	1127.1	1138.4	1130.6	1131.4
65°	983.9	987.4	995.2	990.0	984.8
67.5°	855.5	865.9	870.3	871.1	866.8
70°	750.5	758.3	762.7	760.9	758.3
72.5°	661.2	665.5	673.3	670.7	665.5
75°	576.1	580.5	584.8	583.1	577.9
77.5°	505.0	508.4	511.9	512.8	509.3
80°	443.4	446.8	448.6	446.0	447.7
82.5°	387.8	391.3	393.1	392.2	391.3
85°	340.1	341.0	346.2	341.9	342.7
87.5°	299.3	300.2	301.9	301.9	300.2
90°	268.1	270.7	272.4	271.6	269.8
92.5°	246.4	249.0	249.0	249.0	248.2
95°	228.2	229.9	231.7	230.8	229.9
97.5°	213.4	214.3	216.0	215.2	214.3
100°	199.6	200.4	202.2	201.3	200.4
102.5°	186.5	188.3	189.1	189.1	188.3
105°	177.0	177.0	177.9	177.9	177.9
107.5°	167.5	167.5	168.3	168.3	168.3
110°	159.6	159.6	159.6	159.6	160.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	151.0	151.8	151.8	151.8	152.7
115°	144.0	144.9	144.9	145.8	145.8
117.5°	138.0	138.0	138.8	138.8	139.7
120°	132.8	133.6	133.6	134.5	134.5
122.5°	128.4	128.4	129.3	129.3	130.1
125°	124.1	124.9	124.9	125.8	125.8
127.5°	120.6	121.5	122.3	122.3	122.3
130°	118.9	119.7	119.7	119.7	120.6
132.5°	116.3	116.3	116.3	117.1	118.0
135°	113.7	113.7	113.7	113.7	114.5
137.5°	111.1	111.9	111.9	111.9	111.9
140°	109.3	110.2	110.2	110.2	110.2
142.5°	108.5	109.3	109.3	109.3	109.3
145°	107.6	107.6	107.6	107.6	108.5
147.5°	106.7	106.7	106.7	106.7	106.7
150°	105.9	105.9	105.0	105.0	105.9
152.5°	104.1	104.1	103.3	104.1	104.1
155°	101.5	102.4	101.5	101.5	102.4
157.5°	99.8	99.8	99.8	99.8	99.8
160°	96.3	96.3	95.4	95.4	96.3
162.5°	91.1	91.1	91.1	91.1	91.1
165°	85.9	85.9	85.0	85.0	85.0
167.5°	79.8	79.8	79.8	79.8	79.8
170°	72.0	72.9	72.0	72.0	72.0
172.5°	63.3	63.3	63.3	63.3	63.3
175°	62.5	62.5	61.6	61.6	62.5
177.5°	62.5	63.3	63.3	63.3	62.5
180°	64.2	64.2	64.2	64.2	64.2

(END OF REPORT)