

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: P231455

Luminaire Tested: **SSLED-LD5-18-W-UNV-L835-CD1-U-FRR22-FRCDL22**

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: P231455
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1708-240-4)
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-FRCDL22
Description: STEELER WHITE REFRACTOR LENS AND CIRCULAR DROP
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: 15774.0 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.16 / 1.37
Luminous Opening: Vertical Cylinder (Dia: 1.83' x H: 1')
CIE Type: Semi-Direct

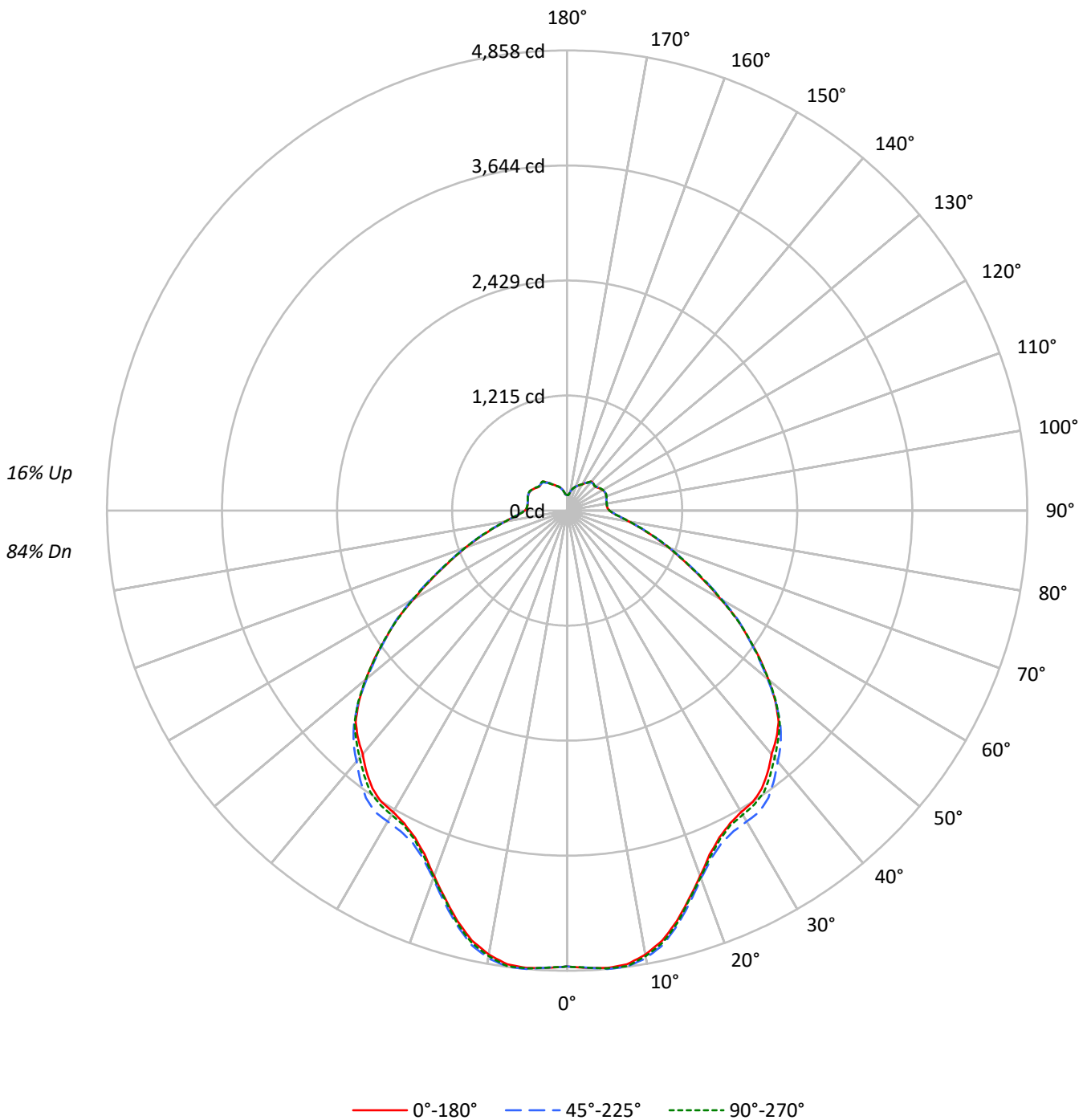
Input Watts (W): 133.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	115	115	115	115	111	111	111	111	102	102	102	95	95	95	88	88	88	84
1	104	100	95	91	100	96	92	88	89	85	82	82	79	77	76	74	72	69
2	95	87	80	74	91	83	77	72	77	72	68	72	68	64	66	63	60	57
3	87	76	68	61	83	73	66	60	68	62	57	63	58	54	59	55	51	48
4	79	67	59	52	76	65	57	51	60	54	48	56	51	46	52	48	44	41
5	73	60	51	45	70	58	50	44	54	47	42	51	45	40	47	42	38	36
6	67	54	45	39	64	52	44	38	49	42	37	46	40	35	43	38	34	31
7	62	49	40	34	60	47	39	34	44	37	32	42	36	31	39	34	30	28
8	58	45	36	30	55	43	35	30	41	34	29	38	32	28	36	31	27	25
9	54	41	33	27	52	40	32	27	37	31	26	35	29	25	33	28	24	22
10	51	38	30	25	49	37	29	24	34	28	23	33	27	23	31	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19625	19625	19625
5°	18702	18746	18722
10°	17555	17696	17619
15°	15956	16086	16027
20°	14221	14308	14263
25°	12933	13134	12995
30°	12349	12737	12466
35°	11999	12402	12138
40°	11293	11631	11459
45°	10745	10828	10804
50°	9631	9580	9646
55°	8315	8318	8352
60°	6929	7015	6967
65°	5670	5720	5690
70°	4663	4692	4695
75°	3798	3847	3847
80°	3139	3164	3168
85°	2716	2739	2711



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	461.2	2.9
10°-20°	1261.4	8.0
20°-30°	1793.6	11.4
30°-40°	2265.9	14.4
40°-50°	2428.2	15.4
50°-60°	2082.5	13.2
60°-70°	1473.2	9.3
70°-80°	935.2	5.9
80°-90°	582.8	3.7
90°-100°	468.5	3.0
100°-110°	455.0	2.9
110°-120°	439.0	2.8
120°-130°	372.0	2.4
130°-140°	305.3	1.9
140°-150°	226.4	1.4
150°-160°	137.2	0.9
160°-170°	69.3	0.4
170°-180°	17.3	0.1
0°-30°	3516.2	22.3
0°-40°	5782.1	36.7
0°-60°	10292.8	65.3
0°-90°	13284.0	84.2
90°-120°	1362.5	8.6
90°-150°	2266.1	14.4
90°-180°	2490.0	15.8
0°-180°	15774.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4813	4813	4813	4813	4813	
5°	4847	4853	4858	4856	4852	460
15°	4483	4489	4520	4508	4503	1255
25°	3806	3863	3865	3888	3824	1770
35°	3583	3596	3703	3624	3624	2230
45°	3158	3164	3182	3189	3175	2409
55°	2330	2329	2331	2318	2340	2086
65°	1463	1472	1476	1472	1468	1462
75°	866	876	877	877	877	929
85°	519	518	523	519	518	455
90°	447	448	450	449	447	246
95°	423	424	426	426	425	346
105°	428	428	429	430	430	454
115°	443	444	445	447	448	437
125°	413	414	416	416	417	370
135°	394	394	394	396	397	305
145°	358	360	359	358	356	227
155°	293	294	294	292	295	137
165°	244	243	242	243	244	69
175°	169	168	168	168	168	17
180°	165	165	165	165	165	



TEST NUMBER: P231455

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4813.0	4813.0	4813.0	4813.0	4813.0
2.5°	4832.9	4832.9	4829.5	4832.1	4829.5
5°	4846.8	4852.9	4858.1	4855.5	4852.0
7.5°	4832.1	4838.1	4855.5	4851.2	4851.2
10°	4759.2	4770.5	4797.4	4789.5	4776.5
12.5°	4649.0	4668.1	4692.4	4677.6	4671.5
15°	4483.3	4489.3	4519.7	4508.4	4503.2
17.5°	4288.9	4288.9	4327.1	4325.3	4299.3
20°	4105.8	4118.8	4131.0	4143.1	4118.0
22.5°	3929.7	3974.8	3973.9	3996.5	3950.5
25°	3805.6	3862.9	3864.6	3888.0	3823.8
27.5°	3724.0	3788.3	3812.5	3810.8	3741.4
30°	3674.6	3711.9	3790.0	3742.3	3709.3
32.5°	3648.6	3650.3	3773.5	3679.8	3679.8
35°	3582.6	3595.6	3703.2	3624.3	3624.3
37.5°	3479.4	3529.7	3587.8	3556.6	3520.1
40°	3357.9	3441.2	3458.5	3453.3	3407.3
42.5°	3267.7	3314.5	3340.5	3334.5	3295.4
45°	3157.5	3164.4	3181.8	3188.7	3174.8
47.5°	2982.2	2979.6	2987.4	2991.7	2993.5
50°	2774.8	2754.9	2760.1	2759.2	2779.2
52.5°	2562.2	2537.1	2537.1	2532.7	2550.1
55°	2329.7	2328.8	2330.6	2318.4	2340.1
57.5°	2119.7	2126.7	2131.9	2117.1	2111.9
60°	1871.6	1895.0	1895.0	1888.9	1882.0
62.5°	1656.4	1673.7	1683.3	1669.4	1668.5
65°	1462.9	1471.6	1475.9	1472.4	1468.1
67.5°	1285.9	1296.3	1301.5	1293.7	1294.6
70°	1137.5	1141.0	1144.5	1152.3	1145.3
72.5°	995.2	997.8	1004.8	1003.0	1003.0
75°	865.9	875.5	877.2	877.2	877.2
77.5°	758.3	763.6	762.7	760.9	759.2
80°	660.3	665.5	665.5	665.5	666.4
82.5°	583.9	583.1	584.8	586.5	586.5
85°	518.9	518.0	523.2	518.9	518.0
87.5°	473.7	476.4	478.1	477.2	475.5
90°	446.9	447.7	449.5	448.6	446.9
92.5°	430.4	432.1	433.8	433.8	433.0
95°	423.4	424.3	426.0	426.0	425.2
97.5°	421.7	422.6	424.3	424.3	423.4
100°	422.6	423.4	424.3	424.3	425.2
102.5°	423.4	424.3	425.2	426.0	426.0
105°	427.8	427.8	428.6	429.5	430.4
107.5°	433.0	433.8	434.7	435.6	435.6
110°	439.0	439.9	439.9	441.6	441.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	443.4	444.2	444.2	446.0	446.9
115°	443.4	444.2	445.1	446.9	447.7
117.5°	439.9	439.9	440.8	442.5	444.2
120°	432.1	432.1	433.8	434.7	436.4
122.5°	422.6	423.4	425.2	426.0	426.9
125°	413.0	413.9	415.6	415.6	417.3
127.5°	400.0	402.6	404.3	404.3	405.2
130°	389.6	392.2	393.9	394.8	393.9
132.5°	387.0	389.6	392.2	390.5	388.7
135°	393.9	393.9	393.9	395.7	397.4
137.5°	400.9	399.1	393.1	400.0	402.6
140°	400.9	394.8	390.5	393.9	400.9
142.5°	380.9	379.2	370.5	377.4	380.0
145°	358.3	360.1	359.2	357.5	355.7
147.5°	339.3	342.7	345.3	338.4	338.4
150°	318.4	326.2	326.2	323.6	321.0
152.5°	307.2	308.9	308.9	307.2	308.0
155°	293.3	294.1	294.1	292.4	295.0
157.5°	279.4	281.1	281.1	281.1	280.3
160°	269.8	270.7	269.8	269.8	269.0
162.5°	257.7	256.8	256.8	256.8	257.7
165°	243.8	242.9	242.1	242.9	243.8
167.5°	227.3	227.3	226.5	226.5	226.5
170°	207.4	208.2	207.4	207.4	206.5
172.5°	181.3	180.5	181.3	181.3	182.2
175°	169.2	168.3	167.5	168.3	168.3
177.5°	164.9	165.7	165.7	164.9	164.0
180°	164.9	164.9	164.9	164.9	164.9

(END OF REPORT)