

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: SURE-LITES

Report Number: 168P106

Luminaire Tested: **STL-4-2F32**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: 168P106
Test Lab:
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SURE-LITES
Catalog Number: STL-4-2F32
Description: 9.25" x 49" Surface mounted Luminaire with acrylic lenses.
Light Source: Two - FO32/35K - 2800 Lumens - 32 Watts
Ballast/Driver: Advance REL-2P32-SC Electronic - L.O.B.F. = unknown

Summary

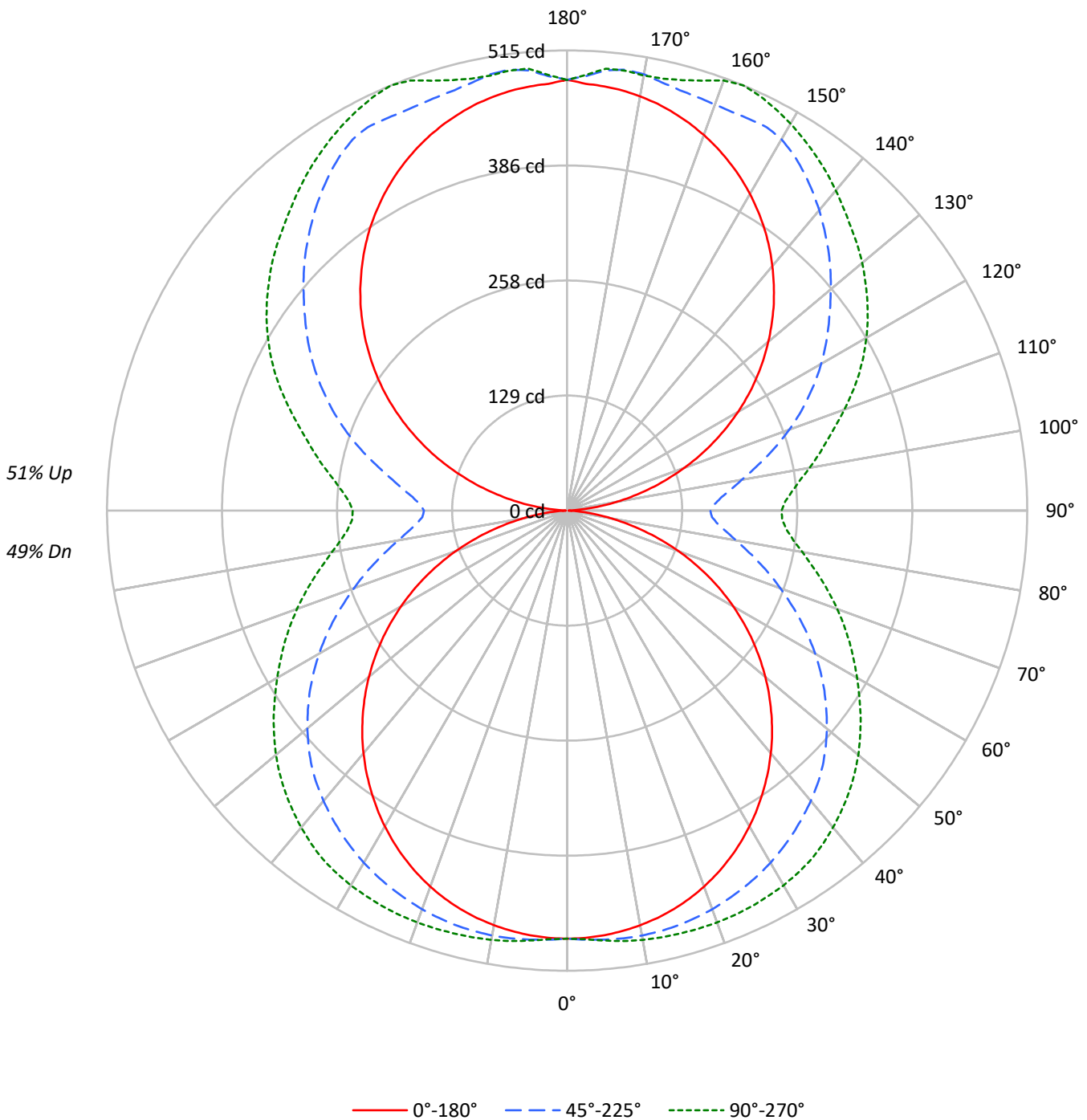
Lumens per Lamp: 2800 (2 lamps)
Luminaire Lumens: 3939.2 lumens
Efficiency: 70.3%
Efficacy: 66.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.51 / 1.56
Luminous Opening: Rectangular w/ Sides (W: 0.77' x L: 3.83' x H: 0.18')
CIE Type: General Diffuse

Input Watts (W): 59.7
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



TEST NUMBER: 168P106
CATALOG NUMBER: STL-4-2F32

Luminous Intensity Polar Plot





TEST NUMBER: 168P106
 CATALOG NUMBER: STL-4-2F32

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	75	75	75	75	69	69	69	69	58	58	58	48	48	48	39	39	39	35
1	67	64	60	57	62	59	56	53	49	47	45	40	39	37	32	31	30	26
2	61	55	50	46	56	50	46	43	42	39	36	35	32	30	28	26	24	21
3	55	48	42	38	50	44	39	35	37	33	30	30	27	25	24	22	20	17
4	50	42	36	31	46	39	33	29	32	28	25	27	23	21	21	19	17	14
5	46	37	31	27	42	34	29	25	29	25	21	24	20	18	19	16	15	12
6	42	33	27	23	38	31	25	21	26	21	18	21	18	15	17	15	13	10
7	39	30	24	20	36	28	22	18	23	19	16	19	16	13	15	13	11	9
8	36	27	21	17	33	25	20	16	21	17	14	18	14	12	14	12	10	8
9	33	25	19	15	31	23	18	14	19	15	12	16	13	11	13	11	9	7
10	31	22	17	14	29	21	16	13	18	14	11	15	12	10	12	10	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1745	1745	1745
5°	1737	1732	1731
10°	1729	1727	1734
15°	1720	1722	1740
20°	1707	1718	1754
25°	1691	1717	1774
30°	1672	1720	1798
35°	1648	1725	1825
40°	1623	1733	1846
45°	1592	1743	1868
50°	1555	1745	1893
55°	1509	1745	1917
60°	1450	1745	1952
65°	1368	1747	2014
70°	1251	1761	2100
75°	1082	1806	2225
80°	826	1911	2435
85°	446	2186	2844



TEST NUMBER: 168P106
 CATALOG NUMBER: STL-4-2F32

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	45.9	1.2	0.8	0°	479	479	479	479	479	
10°-20°	135.2	3.4	2.4	5°	477	478	482	483	483	45
20°-30°	213.8	5.4	3.8	15°	462	468	480	488	490	130
30°-40°	272.9	6.9	4.9	25°	430	444	466	483	489	198
40°-50°	304.7	7.7	5.4	35°	383	405	441	468	476	239
50°-60°	304.3	7.7	5.4	45°	323	354	404	436	446	249
60°-70°	273.7	6.9	4.9	55°	253	294	351	389	401	226
70°-80°	220.9	5.6	3.9	65°	174	224	288	333	349	172
80°-90°	169.7	4.3	3.0	75°	90	146	222	275	294	95
90°-100°	174.5	4.4	3.1	85°	16	84	169	226	247	21
100°-110°	229.2	5.8	4.1	90°	2	74	160	220	240	2
110°-120°	283.0	7.2	5.1	95°	19	88	174	233	253	24
120°-130°	312.7	7.9	5.6	105°	97	154	230	282	301	103
130°-140°	312.2	7.9	5.6	115°	181	231	297	344	360	179
140°-150°	280.9	7.1	5.0	125°	259	309	357	397	410	231
150°-160°	220.8	5.6	3.9	135°	327	376	413	440	449	252
160°-170°	138.0	3.5	2.5	145°	385	416	462	480	485	241
170°-180°	46.8	1.2	0.8	155°	430	452	483	508	512	198
0°-30°	394.9	10.0	7.1	165°	461	484	487	496	499	130
0°-40°	667.8	17.0	11.9	175°	477	485	494	497	496	45
0°-60°	1276.9	32.4	22.8	180°	482	482	482	482	482	
0°-90°	1941.3	49.3	34.7							
90°-120°	686.7	17.4	12.3							
90°-150°	1592.4	40.4	28.4							
90°-180°	1998.0	50.7	35.7							
0°-180°	3939.2	100.0	70.3							



TEST NUMBER: 168P106
 CATALOG NUMBER: STL-4-2F32

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	479.1	479.1	479.1	479.1	479.1
2.5°	478.7	478.2	480.7	480.7	480.2
5°	477.1	477.7	481.9	483.2	483.0
7.5°	474.6	476.7	482.8	485.4	485.9
10°	471.2	474.8	482.9	486.9	487.9
12.5°	467.0	472.2	482.1	487.7	489.1
15°	461.7	468.4	480.5	487.8	489.9
17.5°	455.3	463.7	478.0	487.5	490.4
20°	447.9	457.9	474.8	486.7	490.4
22.5°	439.4	451.3	470.7	485.1	490.0
25°	429.9	443.7	466.1	483.0	488.7
27.5°	419.5	435.1	461.0	480.2	486.6
30°	408.1	425.8	455.1	476.8	484.3
32.5°	395.9	415.5	448.4	472.8	480.8
35°	382.7	404.6	440.9	467.9	476.5
37.5°	369.2	392.9	432.8	461.7	470.3
40°	354.6	380.8	424.2	454.0	463.0
42.5°	339.5	367.8	414.9	445.3	454.9
45°	323.4	354.2	404.4	436.0	446.0
47.5°	306.9	339.9	392.4	425.8	436.3
50°	289.6	325.0	379.5	414.6	425.4
52.5°	271.7	309.3	365.7	402.1	413.5
55°	253.3	293.5	351.4	388.9	400.9
57.5°	234.3	277.1	336.2	375.1	387.7
60°	214.9	260.3	320.5	361.3	374.6
62.5°	194.9	242.5	304.3	346.9	361.7
65°	174.4	223.9	287.5	332.7	348.7
67.5°	153.4	204.6	270.4	318.5	335.3
70°	132.4	185.2	253.9	303.9	321.6
72.5°	111.1	165.6	237.7	289.4	307.7
75°	90.1	146.1	221.7	274.9	293.6
77.5°	69.5	127.3	206.1	260.9	280.0
80°	49.7	110.6	191.9	247.7	267.2
82.5°	31.6	96.0	179.3	235.8	255.5
85°	16.3	84.5	168.9	226.5	246.6
87.5°	5.4	76.5	162.1	220.7	240.9
90°	1.6	73.6	160.2	219.5	239.9
92.5°	6.6	78.1	165.1	224.2	244.6
95°	19.4	87.8	173.6	232.7	253.1
97.5°	37.1	101.2	185.4	243.3	263.2
100°	56.3	117.5	198.5	255.8	275.6
102.5°	76.5	135.2	213.6	268.8	288.2
105°	97.3	153.7	230.3	282.4	300.8
107.5°	118.2	172.8	247.6	297.6	314.9
110°	139.3	191.7	264.5	313.6	330.1



TEST NUMBER: 168P106
 CATALOG NUMBER: STL-4-2F32

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	160.2	211.1	281.1	329.4	345.4
115°	180.8	231.2	297.2	344.5	360.2
117.5°	201.2	251.1	313.1	358.7	373.9
120°	220.9	270.8	328.3	372.5	386.7
122.5°	240.2	290.2	342.9	385.3	398.9
125°	258.7	309.1	356.8	397.4	410.1
127.5°	276.7	327.5	370.8	408.9	420.7
130°	293.9	345.1	385.2	419.9	431.2
132.5°	310.8	361.6	399.6	429.9	440.4
135°	327.0	376.0	413.2	440.3	449.0
137.5°	342.5	387.4	426.2	450.9	458.3
140°	357.3	396.9	438.9	461.3	467.8
142.5°	371.6	406.4	450.8	471.2	477.0
145°	385.0	415.9	462.0	480.4	485.1
147.5°	397.5	425.6	472.0	488.9	492.9
150°	409.3	435.0	479.9	496.4	500.0
152.5°	420.1	443.7	483.7	503.1	506.2
155°	430.0	452.3	483.3	508.3	511.6
157.5°	439.2	460.9	482.8	509.6	515.0
160°	447.3	469.7	483.6	504.8	512.2
162.5°	454.6	478.1	485.2	498.9	504.4
165°	460.9	484.2	487.1	495.8	498.6
167.5°	466.4	488.2	490.7	494.0	495.2
170°	470.8	489.4	495.7	494.9	494.3
172.5°	474.2	487.8	497.7	498.0	496.6
175°	476.6	484.8	494.5	497.0	496.4
177.5°	478.1	482.2	486.7	488.2	488.0
180°	482.0	482.0	482.0	482.0	482.0

(END OF REPORT)