

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: E430-35

Luminaire Tested: **#29-12 SURLITES P4C-1 EMERGENCY LIGHT SEMI-SPECULAR REFLECTOR**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: E430-35
Test Lab:
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SURE-LITES
Catalog Number: #29-12 SURLITES P4C-1 EMERGENCY LIGHT SEMI-SPECULAR REFLECTOR
Description:
Light Source: 6V 6W HALOGEN EMERGENCY LIGHT T-2 1/4 G-4 TWO PIN
Ballast/Driver: -

Summary

Lumens per Lamp: 113 (1 lamp)
Luminaire Lumens: 78.1 lumens
Efficiency: 69.1%
Efficacy: 13.0 lumens/watt
Spacing Criteria (0/90/45): 1.53 / 1.53 / 1.69
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

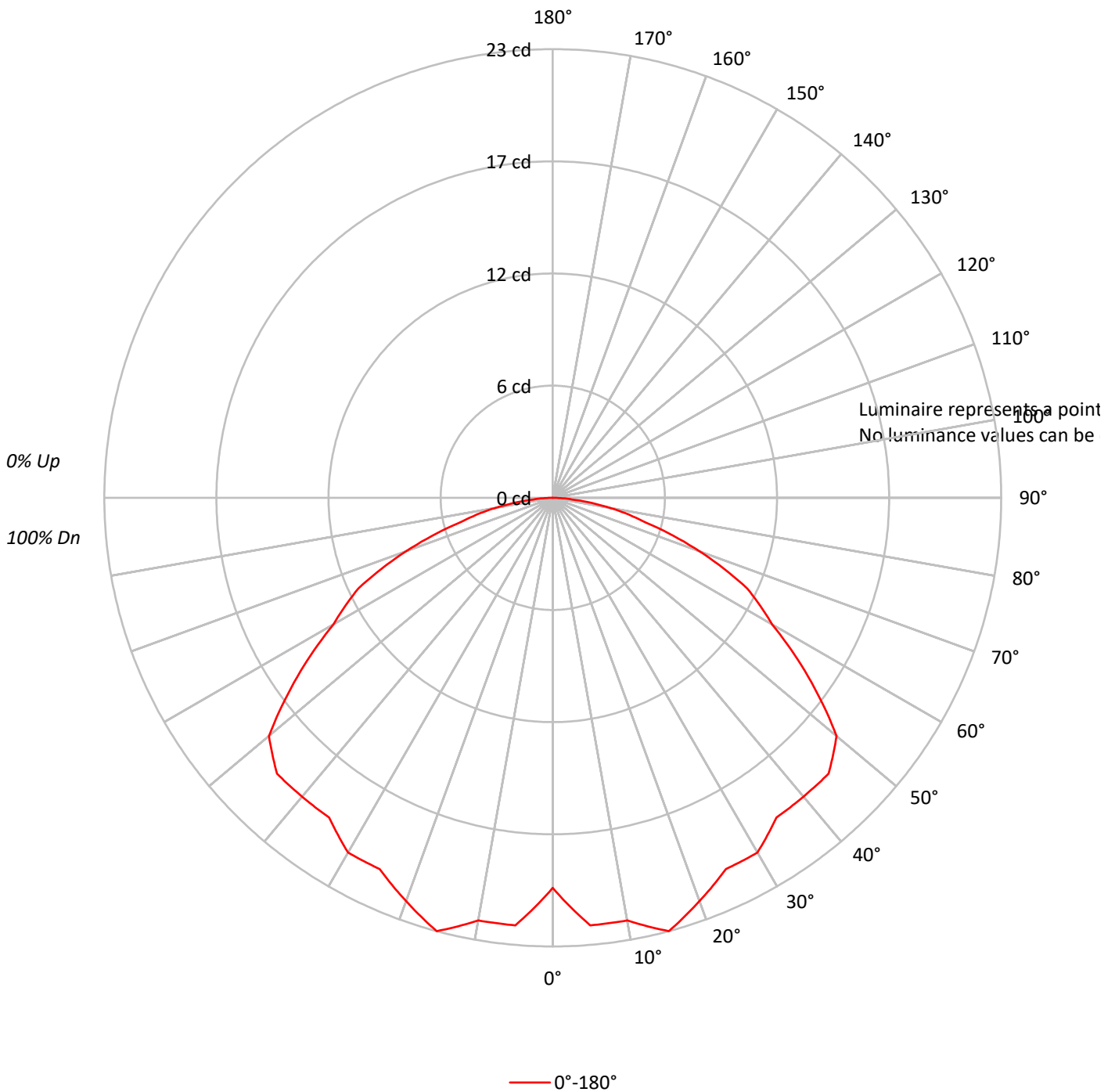
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: E430-35

CATALOG NUMBER: #29-12 SURLITES P4C-1 EMERGENCY LIGHT SEMI-SPECULAR REFLECTOR

Luminous Intensity Polar Plot





TEST NUMBER: E430-35

CATALOG NUMBER: #29-12 SURLITES P4C-1 EMERGENCY LIGHT SEMI-SPECULAR REFLECTOR

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	82	82	82	82	80	80	80	80	77	77	77	74	74	74	71	71	71	69
1	75	72	68	66	73	70	67	65	67	65	63	64	62	61	62	60	59	57
2	68	62	57	53	66	61	56	52	58	54	51	56	53	50	54	51	49	47
3	62	54	48	43	60	53	47	43	51	46	42	49	45	41	47	44	41	39
4	56	47	41	36	54	47	41	36	45	40	36	43	39	35	42	38	35	33
5	51	42	36	31	50	41	35	31	40	34	30	38	34	30	37	33	30	28
6	47	38	31	27	46	37	31	27	36	30	26	35	30	26	33	29	26	24
7	44	34	28	23	42	33	27	23	32	27	23	31	26	23	30	26	23	21
8	40	31	25	21	39	30	25	21	29	24	20	29	24	20	28	23	20	19
9	38	28	22	18	37	28	22	18	27	22	18	26	21	18	25	21	18	17
10	35	26	20	17	34	26	20	16	25	20	16	24	20	16	24	19	16	15

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: E430-35

CATALOG NUMBER: #29-12 SURLITES P4C-1 EMERGENCY LIGHT SEMI-SPECULAR REFLECTOR

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux
0°-10°	2.1	2.7	1.8	0°	20
10°-20°	6.4	8.2	5.6	5°	22
20°-30°	9.8	12.6	8.7	15°	23
30°-40°	12.7	16.3	11.2	25°	21
40°-50°	15.3	19.6	13.5	35°	20
50°-60°	14.3	18.3	12.7	45°	20
60°-70°	10.6	13.6	9.4	55°	16
70°-80°	5.5	7.1	4.9	65°	11
80°-90°	1.4	1.7	1.2	75°	5
90°-100°	0.0	0.0	0.0	85°	1
100°-110°	0.0	0.0	0.0	90°	0
110°-120°	0.0	0.0	0.0	95°	0
120°-130°	0.0	0.0	0.0	105°	0
130°-140°	0.0	0.0	0.0	115°	0
140°-150°	0.0	0.0	0.0	125°	0
150°-160°	0.0	0.0	0.0	135°	0
160°-170°	0.0	0.0	0.0	145°	0
170°-180°	0.0	0.0	0.0	155°	0
0°-30°	18.3	23.4	16.2	165°	0
0°-40°	31.0	39.7	27.4	175°	0
0°-60°	60.6	77.6	53.6	180°	0
0°-90°	78.1	100.0	69.1		
90°-120°	0.0	0.0	0.0		
90°-150°	0.0	0.0	0.0		
90°-180°	0.0	0.0	0.0		
0°-180°	78.1	100.0	69.1		



TEST NUMBER: E430-35

CATALOG NUMBER: #29-12 SURLITES P4C-1 EMERGENCY LIGHT SEMI-SPECULAR REFLECTOR

CANDELA DISTRIBUTION (FULL):

	0°
0°	20.0
2.5°	21.0
5°	22.0
7.5°	22.0
10°	22.0
12.5°	22.5
15°	23.0
17.5°	22.5
20°	22.0
22.5°	21.5
25°	21.0
27.5°	21.0
30°	21.0
32.5°	20.5
35°	20.0
37.5°	20.0
40°	20.0
42.5°	20.0
45°	20.0
47.5°	19.5
50°	19.0
52.5°	17.5
55°	16.0
57.5°	14.5
60°	13.0
62.5°	12.0
65°	11.0
67.5°	9.5
70°	8.0
72.5°	6.5
75°	5.0
77.5°	4.0
80°	3.0
82.5°	2.0
85°	1.0
87.5°	0.5
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.0
105°	0.0
107.5°	0.0
110°	0.0



TEST NUMBER: E430-35

CATALOG NUMBER: #29-12 SURLITES P4C-1 EMERGENCY LIGHT SEMI-SPECULAR REFLECTOR

CANDELA DISTRIBUTION (continued):

	0°
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.0
125°	0.0
127.5°	0.0
130°	0.0
132.5°	0.0
135°	0.0
137.5°	0.0
140°	0.0
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)