

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: SURE-LITES

Report Number: P28972_SEL17

Luminaire Tested: SEL17

Test Date: 10/05/16

Test Information

Test Method: LM-79-2019
Report Number: P28972_SEL17
Test Lab: INNOVATION CENTER-P2
Test Date: 10/05/16
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SURE-LITES
Catalog Number: SEL17
Description: EMERGENCY LIGHT
Light Source: (1) NICHIA 4000K LED
NFSW757DT-V1(2100)
Ballast/Driver: (1) AGILENT DC POWER SUPPLY @ (0.2)
DC POWER SUPPLY IN0011

Summary

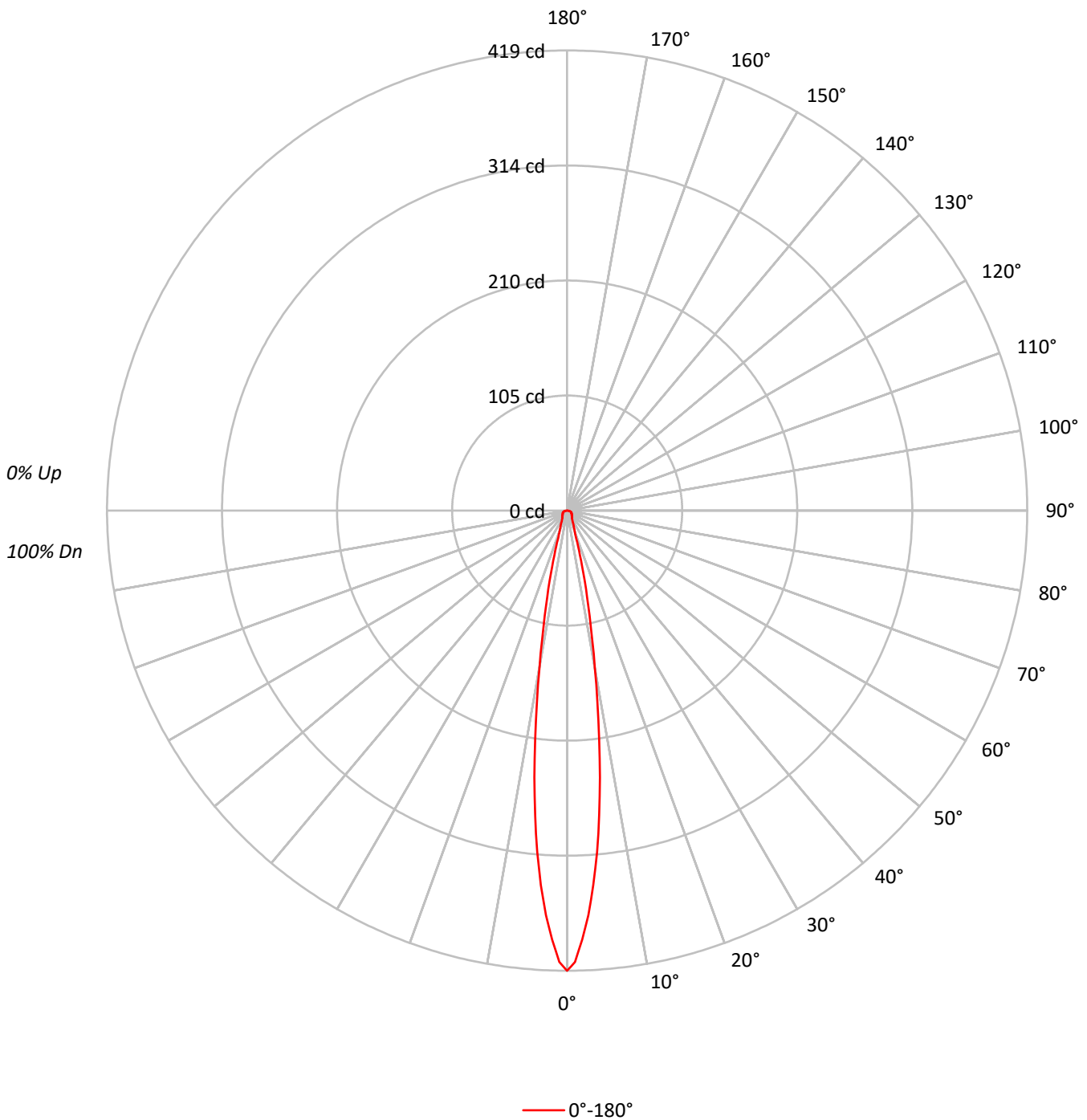
Lumens per Lamp: N/A
Luminaire Lumens: 68.3 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Spacing Criteria (0/90/45): 0.28 / 0.28 / 0.29
Luminous Opening: Circular (Dia: 0.21' x H: 0')
CIE Type: Direct

Input Watts (W): 0.735
Input Voltage (V): 3.67
Input Current (Ain): 0.200
Voltage Rise (V): NR
Power Factor: 0.999
Total Harmonic Distortion (THDi): 4.62%
Frequency (hertz): DC
Stabilization Time: 0.5 HR
Operation Time: 24 HR
Ambient Temperature (°C): 24.7
Test Distance: 24 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	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91
2	106	100	96	92	104	99	94	91	95	92	89	92	90	87	90	87	85	83
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78
4	96	88	82	78	94	87	82	77	85	80	77	83	79	76	81	78	75	73
5	92	84	78	73	90	83	77	73	81	76	72	79	75	72	78	74	71	70
6	88	80	74	70	87	79	73	69	77	73	69	76	72	68	75	71	68	67
7	85	76	71	67	84	76	70	66	74	70	66	73	69	66	72	68	65	64
8	82	73	68	64	81	73	68	64	72	67	64	71	67	63	70	66	63	62
9	80	71	66	62	79	70	65	62	70	65	62	69	64	61	68	64	61	60
10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	132306
5°	98895
10°	46492
15°	17326
20°	6721
25°	4529
30°	3282
35°	3084
40°	2885
45°	2679
50°	2456
55°	2753
60°	3158
65°	2989
70°	3693
75°	3660
80°	3637
85°	3623

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 7239 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.2	35.5
10°-20°	15.9	23.3
20°-30°	6.1	8.9
30°-40°	4.8	7.1
40°-50°	4.6	6.8
50°-60°	4.5	6.6
60°-70°	4.1	6.0
70°-80°	2.9	4.2
80°-90°	1.1	1.6
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°	46.2	67.7
0°-40°	51.1	74.8
0°-60°	60.2	88.2
0°-90°	68.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	68.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	419	
5°	312	24
15°	53	16
25°	13	6
35°	8	5
45°	6	5
55°	5	4
65°	4	4
75°	3	3
85°	1	1
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	419
1°	411
2°	391
3°	369
4°	342
5°	312
6°	279
7°	245
8°	210
9°	176
10°	145
11°	120
12°	98
13°	81
14°	66
15°	53
16°	42
17°	34
18°	27
19°	23
20°	20
22.5°	16
25°	13
26°	12
27°	11
28°	10
29°	10
30°	9
32.5°	8
35°	8
37.5°	7
40°	7
42.5°	6
45°	6
47.5°	6
50°	5
52.5°	5
55°	5
57.5°	5
60°	5
62.5°	4
65°	4
67.5°	4
70°	4
72.5°	3



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CANDELA DISTRIBUTION (continued):

	0°
75°	3
77.5°	2
80°	2
82.5°	1
85°	1
87.5°	1
90°	0

(END OF REPORT)