

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: P25602

Luminaire Tested: **SELM25**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P25602
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SURE-LITES
Catalog Number: SELM25
Description: SURE-LITES WHITE EMERGENCY LIGHT HEAD OPERATED AT 300mA
Light Source: (1) 3500K NICHIA LED
NFSW757DT-V1(2100)
Ballast/Driver: (1) AGILENT DC POWER SUPPLY
IN0011

Summary

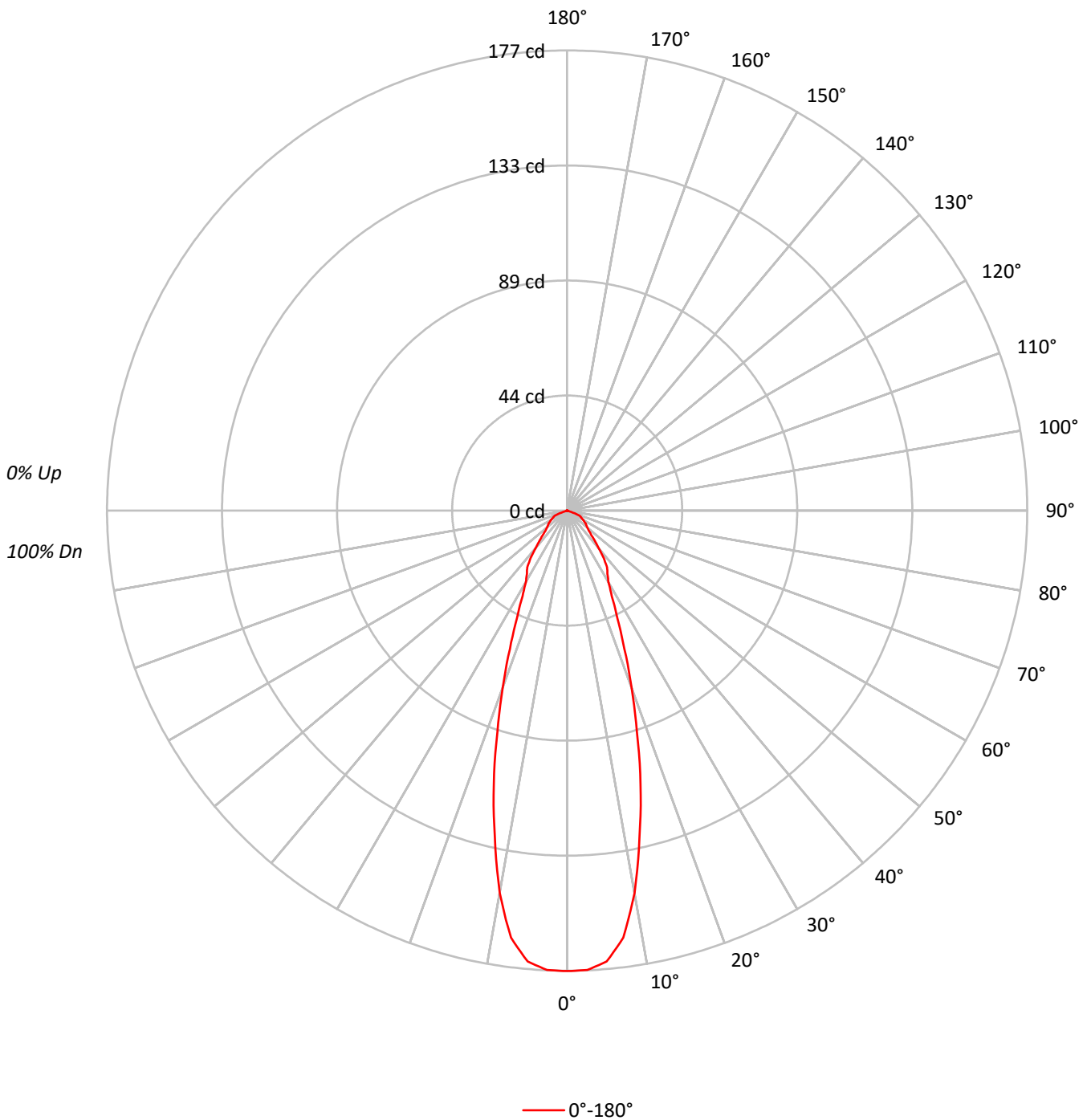
Lumens per Lamp: N/A
Luminaire Lumens: 108.1 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.59
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 1.1
Input Voltage (V): NR
Input Current (A_{in}): 0.30037
Voltage Rise (V): NR
Power Factor: 1
Total Harmonic Distortion (THDi): NR
Frequency (hertz): DC
Stabilization Time: NR
Operation Time: 1.5 HR
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84
3	100	93	87	83	98	92	86	82	89	84	81	86	83	80	84	81	78	77
4	95	86	80	75	93	85	79	75	83	78	74	81	77	73	79	75	72	71
5	89	80	74	69	88	79	73	69	77	72	68	76	71	68	74	70	67	65
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	63	61
7	81	71	64	60	79	70	64	60	69	63	59	67	63	59	66	62	59	57
8	77	67	60	56	75	66	60	56	65	60	56	64	59	55	63	58	55	54
9	73	63	57	53	72	63	57	53	62	56	53	61	56	52	60	55	52	51
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	38835
5°	38323
10°	33244
15°	24767
20°	16871
25°	11057
30°	8027
35°	7174
40°	5382
45°	4031
50°	3446
55°	3326
60°	3114
65°	3009
70°	1923
75°	169
80°	253
85°	252



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.8	14.7
10°-20°	29.9	27.7
20°-30°	21.7	20.1
30°-40°	16.2	15.0
40°-50°	10.4	9.6
50°-60°	7.7	7.1
60°-70°	5.5	5.1
70°-80°	0.7	0.7
80°-90°	0.1	0.1
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
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0°-30°	67.4	62.4
0°-40°	83.6	77.4
0°-60°	101.7	94.1
0°-90°	108.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	108.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	177	
5°	174	16
15°	109	30
25°	46	22
35°	27	16
45°	13	10
55°	9	8
65°	6	6
75°	0	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	177.1
2.5°	176.9
5°	174.1
7.5°	165.7
10°	149.3
12.5°	128.6
15°	109.1
17.5°	89.3
20°	72.3
22.5°	57.5
25°	45.7
27.5°	37.1
30°	31.7
32.5°	28.8
35°	26.8
37.5°	23.1
40°	18.8
42.5°	15.7
45°	13.0
47.5°	11.2
50°	10.1
52.5°	9.3
55°	8.7
57.5°	7.8
60°	7.1
62.5°	6.3
65°	5.8
67.5°	5.2
70°	3.0
72.5°	0.7
75°	0.2
77.5°	0.3
80°	0.2
82.5°	0.1
85°	0.1
87.5°	0.1
90°	0.0

(END OF REPORT)