

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: P10336

Luminaire Tested:

Issue Date: 03/03/2020



Test Information

Test Method: LM-79-08
Report Number: P10336
Test Lab: PEACHTREE CITY
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SURE-LITES
Catalog Number:
Description: LUMEN AND BEAM SPREAD TEST ON NEW EMERGENCY LAMP (FTF)
SAMPLE 1(S1).-----THIS TEST WAS PERFORMED USING ABSOLUTE
PHOTOMETRY TECHNIQUES.-----
Light Source: ONE BENSINE BI PIN MR11 HALOGEN INCANDESCENT LAMP
35W/MR11 BI PIN LAMP
Ballast/Driver: -

Summary

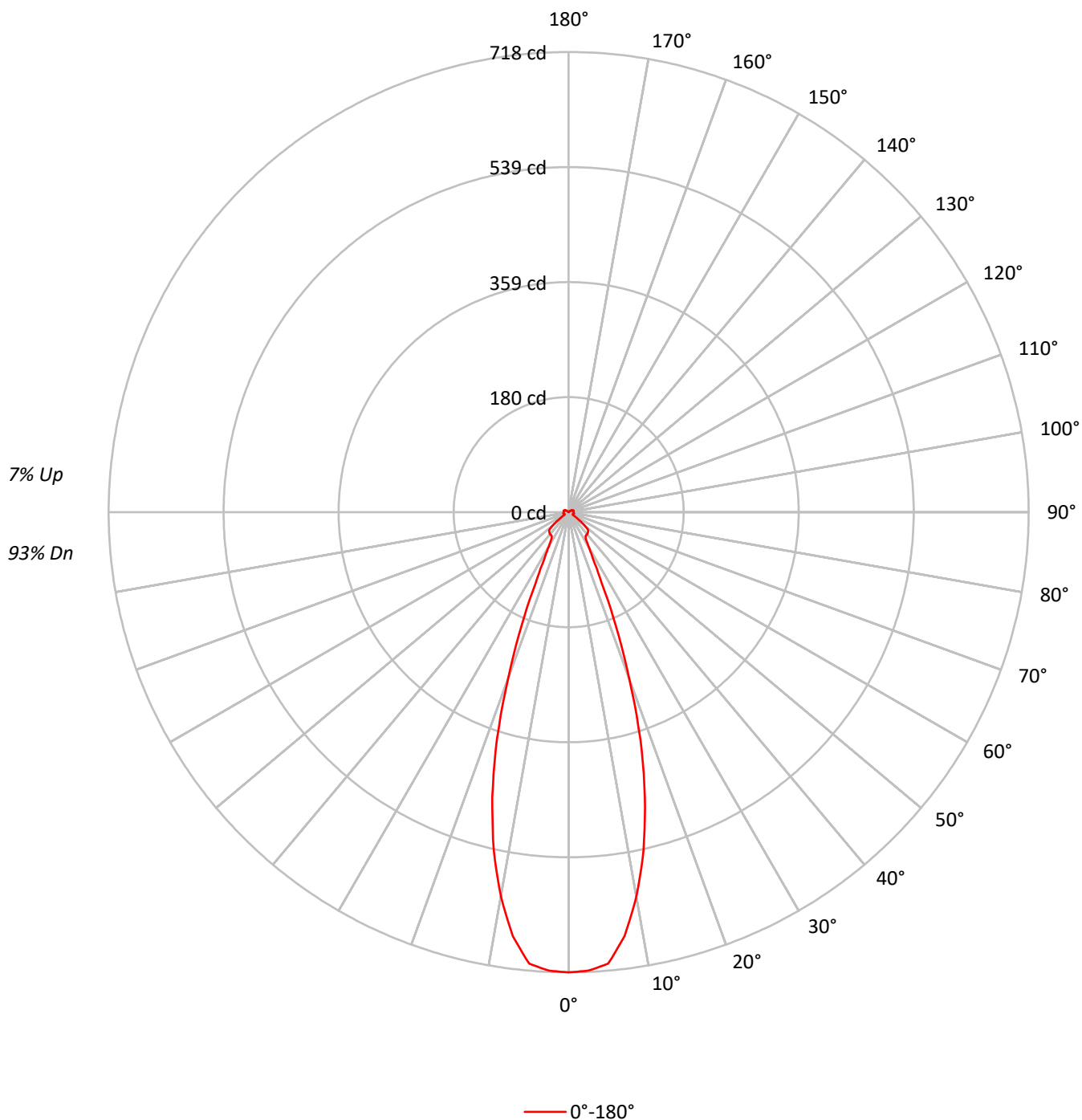
Lumens per Lamp: 381 (1 lamp)
Luminaire Lumens: 380.6 lumens
Efficiency: 99.9%
Efficacy: 10.9 lumens/watt
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.56
Luminous Opening: Circular (Dia: 0.09' x H: 0')
CIE Type: Direct

Input Watts (W): 35
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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CATALOG NUMBER:

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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	92		
1	110	107	104	101	107	104	101	99	98	96	94	93	92	90	89	87	86	84		
2	104	99	94	90	101	96	92	88	92	88	85	88	85	82	84	82	80	77		
3	99	92	86	82	96	90	85	81	86	82	78	82	79	76	79	76	74	72		
4	94	86	80	75	91	84	79	74	81	76	73	78	74	71	75	72	69	68		
5	89	80	74	70	87	79	73	69	76	72	68	74	70	67	72	68	65	64		
6	85	76	70	65	83	75	69	65	72	67	64	70	66	63	68	65	62	60		
7	81	72	66	62	79	71	65	61	69	64	60	67	63	59	65	62	59	57		
8	78	68	62	58	76	67	62	58	66	61	57	64	60	57	63	59	56	54		
9	74	65	59	55	73	64	59	55	63	58	54	61	57	54	60	56	53	52		
10	71	62	56	53	70	61	56	52	60	55	52	59	55	52	58	54	51	50		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1119598
5°	1106657
10°	964281
15°	742595
20°	457995
25°	209905
30°	111635
35°	87565
40°	91600
45°	94825
50°	80054
55°	38061
60°	21831
65°	25828
70°	36473
75°	48198
80°	71839
85°	143130



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux
0°-10°	64.2	16.9	16.8	0°	718
10°-20°	123.8	32.5	32.5	5°	707
20°-30°	62.4	16.4	16.4	15°	460
30°-40°	30.4	8.0	8.0	25°	122
40°-50°	32.2	8.5	8.5	35°	46
50°-60°	14.3	3.8	3.8	45°	43
60°-70°	7.3	1.9	1.9	55°	14
70°-80°	8.7	2.3	2.3	65°	7
80°-90°	8.7	2.3	2.3	75°	8
90°-100°	8.7	2.3	2.3	85°	8
100°-110°	8.5	2.2	2.2	90°	8
110°-120°	6.3	1.7	1.7	95°	8
120°-130°	3.8	1.0	1.0	105°	8
130°-140°	1.1	0.3	0.3	115°	6
140°-150°	0.0	0.0	0.0	125°	4
150°-160°	0.0	0.0	0.0	135°	1
160°-170°	0.0	0.0	0.0	145°	0
170°-180°	0.0	0.0	0.0	155°	0
0°-30°	250.4	65.8	65.7	165°	0
0°-40°	280.7	73.8	73.7	175°	0
0°-60°	327.3	86.0	85.9	180°	0
0°-90°	352.1	92.5	92.4		
90°-120°	23.5	6.2	6.2		
90°-150°	28.5	7.5	7.5		
90°-180°	28.0	7.4	7.3		
0°-180°	380.6	100.0	99.9		



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CANDELA DISTRIBUTION (FULL):

0°	
0°	718
2.5°	716
5°	707
7.5°	667
10°	609
12.5°	540
15°	460
17.5°	372
20°	276
22.5°	192
25°	122
27.5°	82
30°	62
32.5°	50
35°	46
37.5°	45
40°	45
42.5°	44
45°	43
47.5°	41
50°	33
52.5°	23
55°	14
57.5°	8
60°	7
62.5°	7
65°	7
67.5°	8
70°	8
72.5°	8
75°	8
77.5°	9
80°	8
82.5°	8
85°	8
87.5°	8
90°	8
92.5°	8
95°	8
97.5°	8
100°	8
102.5°	8
105°	8
107.5°	8
110°	8



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	7
115°	6
117.5°	6
120°	5
122.5°	5
125°	4
127.5°	4
130°	3
132.5°	2
135°	1
137.5°	1
140°	0
142.5°	0
145°	0
147.5°	0
150°	0
152.5°	0
155°	0
157.5°	0
160°	0
162.5°	0
165°	0
167.5°	0
170°	0
172.5°	0
175°	0
177.5°	0
180°	0

(END OF REPORT)