

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: E395-666

Luminaire Tested: **C7213EEMSL**

Issue Date: 03/03/2020



**Test Information**

Test Method: LM-79-08  
Report Number: E395-666  
Test Lab:  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: SURE-LITES  
Catalog Number: C7213EEMSL  
Description: RECESSED FLUOR - 8" CLEAR SPECULAR REFLECTOR  
Light Source: 2-PL13, 1800 LUMENS  
Ballast/Driver: -

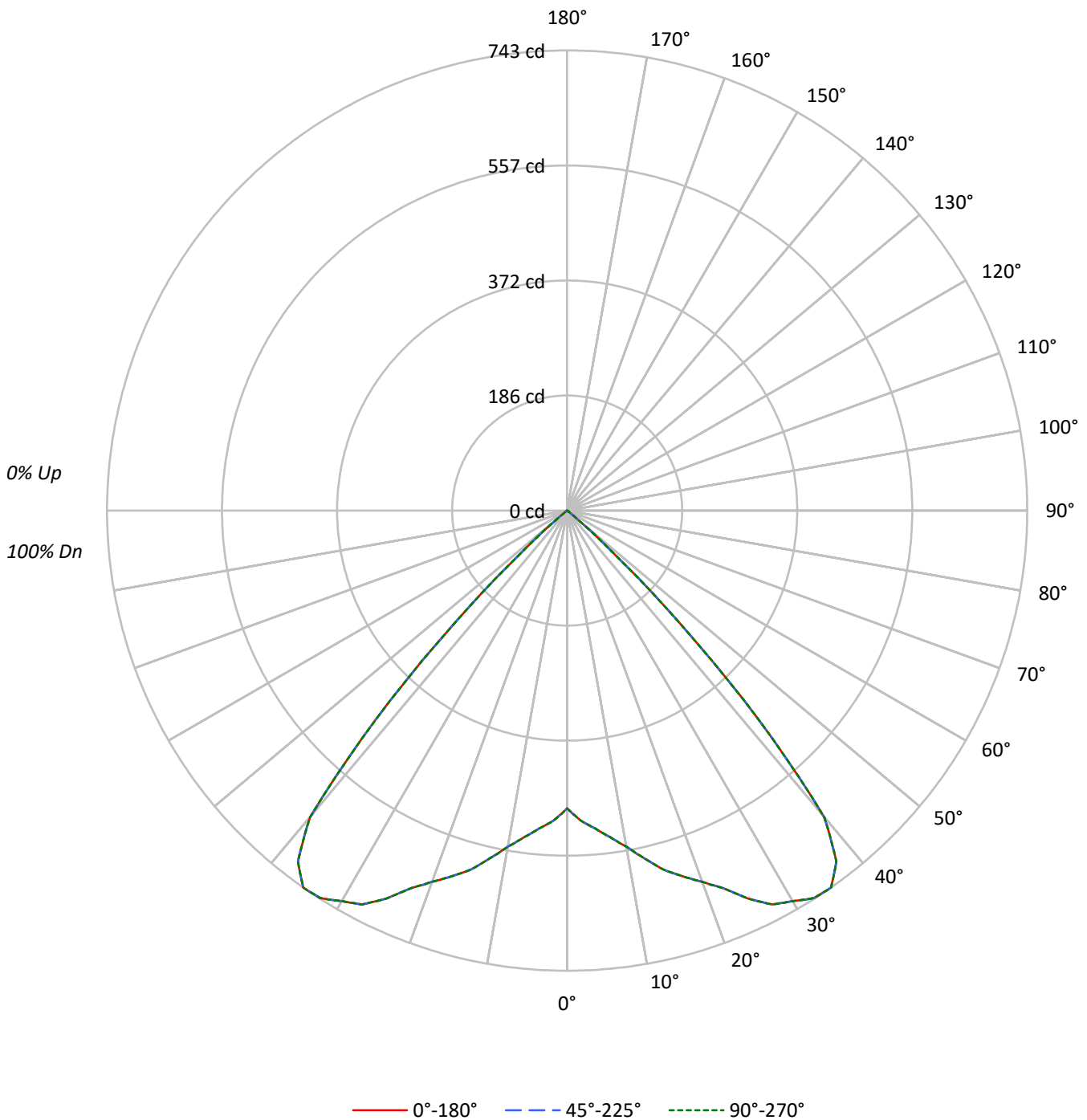
**Summary**

Lumens per Lamp: 1800 (1 lamp)  
Luminaire Lumens: 1213.1 lumens  
Efficiency: 67.4%  
Efficacy: 37.9 lumens/watt  
Spacing Criteria (0/90/45): 1.75 / 1.75 / 1.37  
Luminous Opening: (L: 0 ' x W: -0.62 ' x H: 0 '  
CIE Type: Direct

Input Watts (W): 32  
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: E395-666  
CATALOG NUMBER: C7213EEMSL

### Luminous Intensity Polar Plot





TEST NUMBER: E395-666  
 CATALOG NUMBER: C7213EEMSL

**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	80	80	80	80	78	78	78	78	75	75	75		72	72	72		69	69	69	67
1	76	74	72	70	74	72	71	69	70	68	67		67	66	65		65	64	63	62
2	71	68	65	62	70	66	64	61	64	62	60		62	60	59		60	59	57	56
3	67	62	58	55	66	61	57	54	59	56	54		57	55	53		56	54	52	51
4	63	57	52	49	61	56	52	49	54	51	48		53	50	48		52	49	47	46
5	59	52	47	44	57	51	47	44	50	46	43		49	46	43		48	45	43	41
6	55	48	43	40	54	47	43	39	46	42	39		45	42	39		44	41	39	37
7	51	44	39	36	50	43	39	36	43	38	36		42	38	35		41	38	35	34
8	48	41	36	33	47	40	36	32	39	35	32		39	35	32		38	34	32	31
9	45	37	33	30	44	37	33	30	36	32	29		36	32	29		35	32	29	28
10	42	35	30	27	42	34	30	27	34	30	27		33	29	27		33	29	27	26

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	Luminous shape not found,		
5°	reference photometric report, or contact		
10°	the photometric lab for calculations.		
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



TEST NUMBER: E395-666  
 CATALOG NUMBER: C7213EEMSL

**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	50.2	4.1	2.8	0°	481	481	481	481	481	
10°-20°	170.5	14.1	9.5	5°	515	515	515	515	515	50
20°-30°	319.7	26.4	17.8	15°	600	600	600	600	600	171
30°-40°	452.4	37.3	25.1	25°	691	691	691	691	691	320
40°-50°	214.1	17.6	11.9	35°	743	743	743	743	743	452
50°-60°	5.3	0.4	0.3	45°	256	256	256	256	256	214
60°-70°	1.0	0.1	0.1	55°	3	3	3	3	3	5
70°-80°	0.0	0.0	0.0	65°	1	1	1	1	1	1
80°-90°	0.0	0.0	0.0	75°	0	0	0	0	0	0
90°-100°	0.0	0.0	0.0	85°	0	0	0	0	0	0
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	
110°-120°	0.0	0.0	0.0							
120°-130°	0.0	0.0	0.0							
130°-140°	0.0	0.0	0.0							
140°-150°	0.0	0.0	0.0							
150°-160°	0.0	0.0	0.0							
160°-170°	0.0	0.0	0.0							
170°-180°	0.0	0.0	0.0							
0°-30°	540.5	44.6	30.0							
0°-40°	992.8	81.8	55.2							
0°-60°	1212.2	99.9	67.3							
0°-90°	1213.1	100.0	67.4							
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°	1213.1	100.0	67.4							



TEST NUMBER: E395-666  
 CATALOG NUMBER: C7213EEMSL

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	481	481	481	481	481	481	481	481	481
2.5°	501	501	501	501	501	501	501	501	501
5°	515	515	515	515	515	515	515	515	515
7.5°	532	532	532	532	532	532	532	532	532
10°	551	551	551	551	551	551	551	551	551
12.5°	575	575	575	575	575	575	575	575	575
15°	600	600	600	600	600	600	600	600	600
17.5°	619	619	619	619	619	619	619	619	619
20°	638	638	638	638	638	638	638	638	638
22.5°	660	660	660	660	660	660	660	660	660
25°	691	691	691	691	691	691	691	691	691
27.5°	717	717	717	717	717	717	717	717	717
30°	728	728	728	728	728	728	728	728	728
32.5°	742	742	742	742	742	742	742	742	742
35°	743	743	743	743	743	743	743	743	743
37.5°	714	714	714	714	714	714	714	714	714
40°	646	646	646	646	646	646	646	646	646
42.5°	458	458	458	458	458	458	458	458	458
45°	256	256	256	256	256	256	256	256	256
47.5°	94	94	94	94	94	94	94	94	94
50°	22	22	22	22	22	22	22	22	22
52.5°	6	6	6	6	6	6	6	6	6
55°	3	3	3	3	3	3	3	3	3
57.5°	3	3	3	3	3	3	3	3	3
60°	2	2	2	2	2	2	2	2	2
62.5°	2	2	2	2	2	2	2	2	2
65°	1	1	1	1	1	1	1	1	1
67.5°	0	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)