

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: FAIL-SAFE

Report Number: 10851.0

Luminaire Tested: **TRE11-C-126CT**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: 10851.0  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: TRE11-C-126CT  
Description: FAIL-SAFE COMPACT FLUOR TRIPLE LAMP 11"DIA WALL MNT LUMINAIRE  
WHITE REFL w/INTERNAL RADIAL RIB LENS w/BLACK EYELID FACE  
Light Source: 1/26W 1800 LUMENS  
WATTS=29  
CF26DT/E/IN/835  
Ballast/Driver: ENERGY SAVINGS BLST #ES-1-CFH-42-32-26-UNV-D

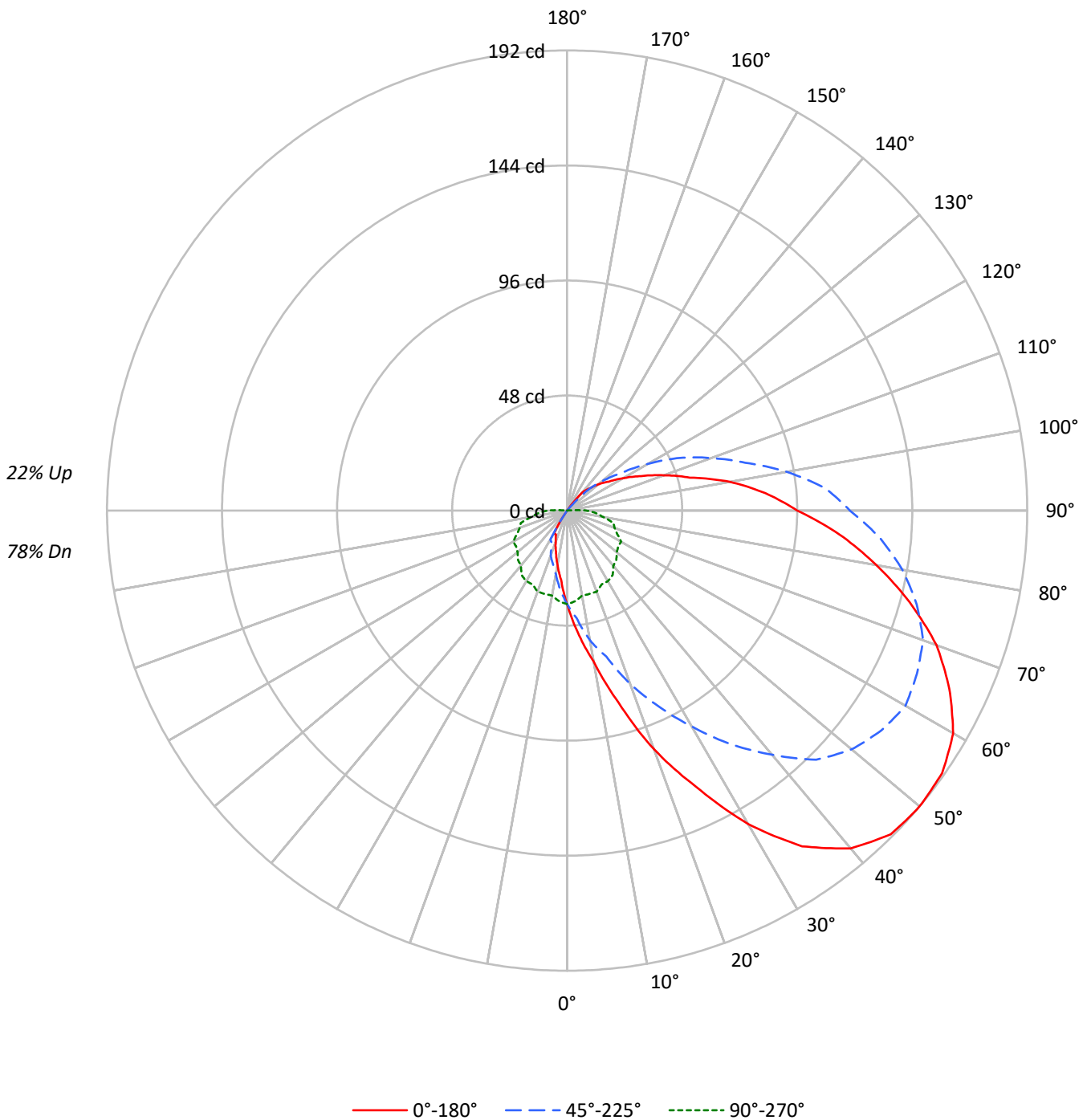
**Summary**

Lumens per Lamp: 1800 (1 lamp)  
Luminaire Lumens: 485.7 lumens  
Efficiency: 27.0%  
Efficacy: 16.7 lumens/watt  
Spacing Criteria (0/90/45): 2.75 / 1.31 / 2.5  
Luminous Opening: Rectangular w/ Sides (W: 0.71' x L: 0.14' x H: 0.36')  
CIE Type: Semi-Direct

Input Watts (W): 29  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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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### 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	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																														
0	31	31	31	31	29	29	29	29	27	27	27	24	24	24	22	22	22	21																												
1	26	25	23	21	25	23	22	20	21	20	19	19	18	17	17	16	15	14																												
2	23	20	18	16	22	19	17	15	17	16	14	16	14	13	14	13	12	11																												
3	21	17	15	12	20	16	14	12	15	13	11	13	11	10	12	10	9	8																												
4	19	15	12	10	18	14	12	10	13	11	9	11	10	8	10	9	7	6																												
5	17	13	10	8	16	12	10	8	11	9	7	10	8	7	9	7	6	5																												
6	16	12	9	7	15	11	9	7	10	8	6	9	7	6	8	6	5	4																												
7	14	10	8	6	14	10	7	6	9	7	5	8	6	5	7	6	4	4																												
8	13	9	7	5	13	9	7	5	8	6	5	7	5	4	6	5	4	3																												
9	12	8	6	4	12	8	6	4	7	5	4	7	5	4	6	4	3	3																												
10	12	8	5	4	11	7	5	4	7	5	4	6	4	3	5	4	3	2																												

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

	0°	90°	180°
0°	4355	4355	4355
5°	4623	4077	2629
10°	4914	3745	1766
15°	5564	3661	1207
20°	6349	3607	839
25°	6922	3383	600
30°	7603	3385	554
35°	8057	3313	0
40°	8206	3060	0
45°	8144	3031	0
50°	7900	2915	0
55°	7649	2926	0
60°	7310	3080	0
65°	6841	2899	0
70°	6353	2852	0
75°	5758	2968	0
80°	5158	2474	0
85°	4578	2247	0



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	3.8	0.8	0.2	0°	39	39	39	39	39	
10°-20°	12.5	2.6	0.7	5°	51	45	38	33	29	5
20°-30°	24.6	5.1	1.4	15°	83	63	36	23	18	24
30°-40°	37.9	7.8	2.1	25°	127	90	34	15	11	60
40°-50°	51.0	10.5	2.8	35°	171	119	33	0	0	107
50°-60°	62.3	12.8	3.5	45°	191	147	29	0	0	147
60°-70°	67.1	13.8	3.7	55°	191	160	26	0	0	170
70°-80°	64.8	13.3	3.6	65°	176	161	23	0	0	174
80°-90°	55.9	11.5	3.1	75°	148	151	20	0	0	156
90°-100°	43.7	9.0	2.4	85°	114	131	12	0	0	97
100°-110°	30.3	6.2	1.7	90°	96	118	8	0	0	53
110°-120°	18.7	3.9	1.0	95°	83	108	0	0	0	65
120°-130°	9.6	2.0	0.5	105°	53	77	0	0	0	58
130°-140°	3.6	0.7	0.2	115°	34	52	0	0	0	34
140°-150°	0.1	0.0	0.0	125°	21	27	0	0	0	19
150°-160°	0.0	0.0	0.0	135°	13	12	0	0	0	10
160°-170°	0.0	0.0	0.0	145°	0	0	0	0	0	2
170°-180°	0.0	0.0	0.0	155°	0	0	0	0	0	0
0°-30°	40.8	8.4	2.3	165°	0	0	0	0	0	0
0°-40°	78.7	16.2	4.4	175°	0	0	0	0	0	0
0°-60°	192.0	39.5	10.7	180°	0	0	0	0	0	0
0°-90°	379.8	78.2	21.1							
90°-120°	92.7	19.1	5.2							
90°-150°	105.9	21.8	5.9							
90°-180°	106.0	21.8	5.9							
0°-180°	485.7	100.0	27.0							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	39	39	39	39	39	39	39	39	39
5°	51	49	45	43	38	31	33	29	29
10°	64	62	55	46	36	31	27	23	23
15°	83	77	63	50	36	29	23	17	18
20°	106	96	77	53	36	27	20	14	14
25°	127	117	90	59	34	25	15	12	11
30°	151	136	104	66	34	21	14	11	11
35°	171	155	119	70	33	20	0	0	0
40°	184	168	133	74	30	0	0	0	0
45°	191	180	147	80	29	0	0	0	0
50°	192	184	155	85	27	0	0	0	0
55°	191	185	160	91	26	0	0	0	0
60°	186	183	163	94	26	0	0	0	0
65°	176	175	161	95	23	0	0	0	0
70°	164	165	158	96	21	0	0	0	0
75°	148	152	151	95	20	0	0	0	0
80°	131	139	142	92	15	0	0	0	0
85°	114	123	131	88	12	0	0	0	0
90°	96	106	118	83	8	0	0	0	0
95°	83	93	108	79	0	0	0	0	0
100°	69	77	93	70	0	0	0	0	0
105°	53	62	77	61	0	0	0	0	0
110°	43	50	64	52	0	0	0	0	0
115°	34	38	52	42	0	0	0	0	0
120°	27	31	39	34	0	0	0	0	0
125°	21	22	27	22	0	0	0	0	0
130°	17	17	19	14	0	0	0	0	0
135°	13	12	12	10	0	0	0	0	0
140°	10	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0

(END OF REPORT)