

Scaled data based on original data using  
LM-66-11 Electrical and Photometric Measurements of Single-Ended Compact  
Fluorescent Lamps

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: SHAPER

Report Number: 18028

Luminaire Tested: **441-12-CF1/26**

Issue Date: 3/3/2020

**Test Information**

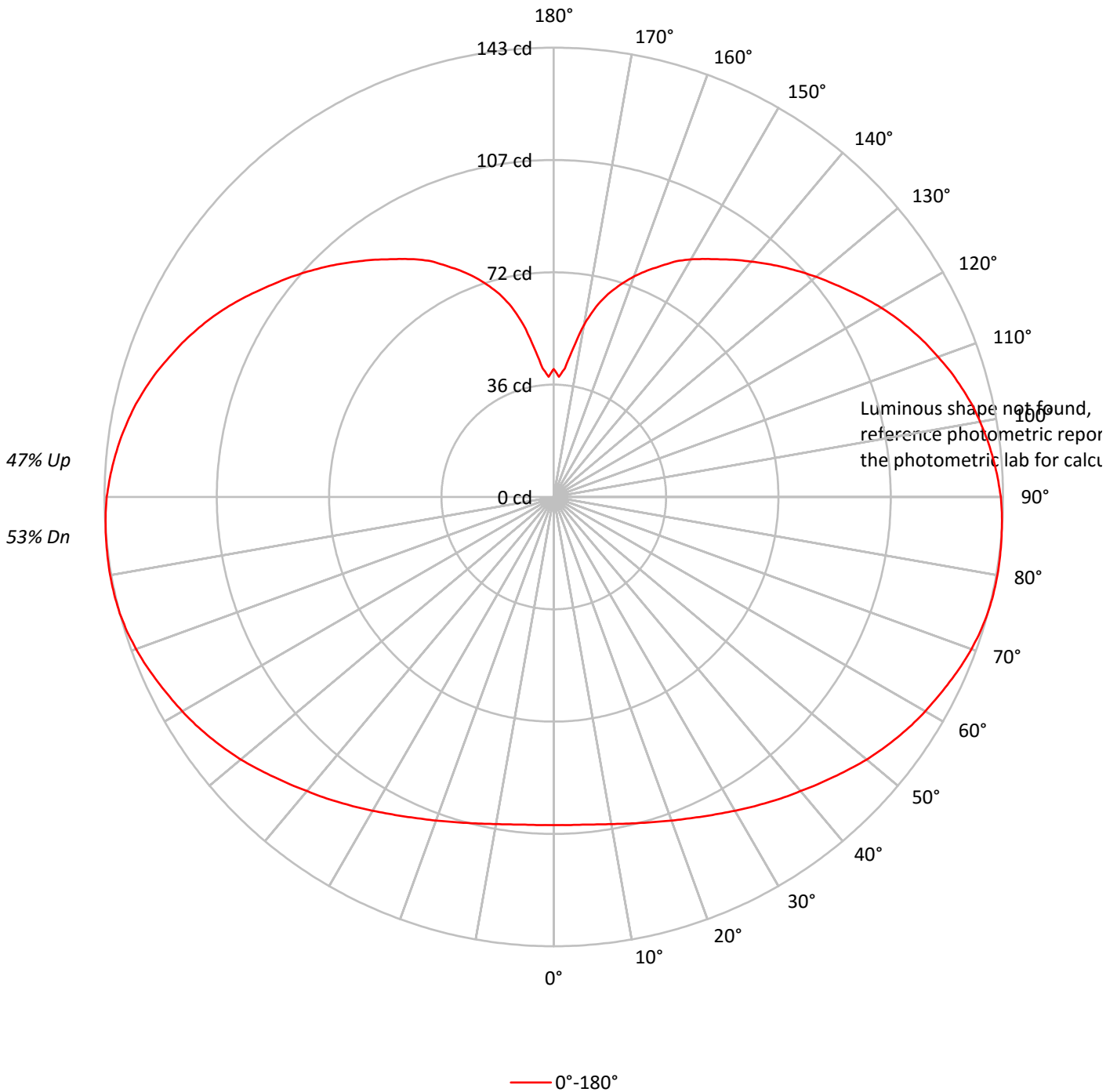
Test Method: LM-66-11  
Report Number: 18028  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: SHAPER  
Catalog Number: 441-12-CF1/26  
Description: INDOOR FLUORESCENT SUSPENDED LUMINAIRE WITH WHITE TOP AND WHITE  
PLASTIC GLOBE LENS  
Light Source: ONE SYLVANIA 26 WATT CPFL LAMP  
  
FT26DT/E/827. LUMEN RATING = 1800 LMS.  
  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 1800 (1 lamp)  
Luminaire Lumens: 1552.3 lumens  
Efficiency: 86.2%  
Efficacy: 57.5 lumens/watt  
Spacing Criteria (0/90/45): 1.76 / 1.76 / 1.98  
Luminous Opening: (L: 0 ' x W: -0.08 ' x H: 0.5 '  
CIE Type: General Diffuse  
  
Input Watts (W): 27  
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

TEST NUMBER: 18028  
CATALOG NUMBER: 441-12-CF1/26

### Luminous Intensity Polar Plot



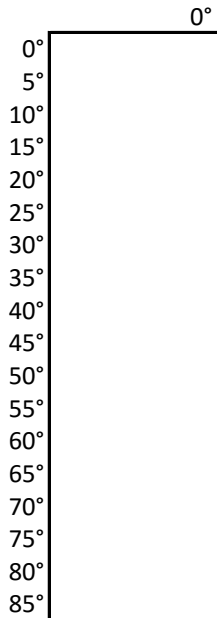


TEST NUMBER: 18028  
 CATALOG NUMBER: 441-12-CF1/26

**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	93	93	93	93	86	86	86	86	74	74	74	62	62	62	51	51	51	46
1	81	75	70	66	74	69	65	61	58	55	51	48	45	43	38	36	35	30
2	72	63	56	50	66	58	52	47	49	44	39	40	36	33	31	29	26	22
3	65	54	46	40	59	50	43	37	42	36	31	34	29	26	27	23	20	17
4	59	47	39	33	53	43	36	30	36	30	26	29	25	21	23	20	17	13
5	53	42	33	27	49	38	31	25	32	26	21	26	21	18	20	17	14	11
6	49	37	29	23	45	34	27	22	28	23	18	23	18	15	18	15	12	9
7	45	33	25	20	41	30	23	19	26	20	16	21	16	13	16	13	10	8
8	42	30	22	17	38	28	21	16	23	18	14	19	14	11	15	11	9	7
9	39	27	20	15	35	25	19	14	21	16	12	17	13	10	14	10	8	6
10	36	25	18	13	33	23	17	13	19	14	11	16	12	9	13	9	7	5

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	10.0	0.6	0.6
10°-20°	30.5	2.0	1.7
20°-30°	52.1	3.4	2.9
30°-40°	74.7	4.8	4.1
40°-50°	97.7	6.3	5.4
50°-60°	119.7	7.7	6.7
60°-70°	138.1	8.9	7.7
70°-80°	151.1	9.7	8.4
80°-90°	156.0	10.1	8.7
90°-100°	153.0	9.9	8.5
100°-110°	142.1	9.2	7.9
110°-120°	124.6	8.0	6.9
120°-130°	102.9	6.6	5.7
130°-140°	80.2	5.2	4.5
140°-150°	58.2	3.7	3.2
150°-160°	37.8	2.4	2.1
160°-170°	19.0	1.2	1.1
170°-180°	4.4	0.3	0.2
0°-30°	92.6	6.0	5.1
0°-40°	167.3	10.8	9.3
0°-60°	384.7	24.8	21.4
0°-90°	829.9	53.5	46.1
90°-120°	419.8	27.0	23.3
90°-150°	661.1	42.6	36.7
90°-180°	722.0	46.5	40.1
0°-180°	1552.3	100.0	86.2

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	104	
5°	105	10
15°	107	31
25°	112	52
35°	119	75
45°	126	98
55°	134	120
65°	139	138
75°	143	151
85°	143	117
90°	142	78
95°	140	114
105°	134	142
115°	126	125
125°	115	103
135°	103	80
145°	92	58
155°	81	38
165°	67	19
175°	41	4
180°	41	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	104.4
2.5°	104.5
5°	104.7
7.5°	105.1
10°	105.7
12.5°	106.5
15°	107.4
17.5°	108.4
20°	109.6
22.5°	110.8
25°	112.2
27.5°	113.7
30°	115.3
32.5°	117.0
35°	118.7
37.5°	120.5
40°	122.2
42.5°	124.1
45°	126.0
47.5°	128.0
50°	130.0
52.5°	131.8
55°	133.5
57.5°	135.1
60°	136.5
62.5°	137.8
65°	139.1
67.5°	140.4
70°	141.5
72.5°	142.4
75°	143.0
77.5°	143.3
80°	143.4
82.5°	143.3
85°	143.1
87.5°	142.8
90°	142.3
92.5°	141.4
95°	140.4
97.5°	139.2
100°	137.8
102.5°	136.3
105°	134.4
107.5°	132.5
110°	130.2



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	128.0
115°	125.6
117.5°	123.1
120°	120.4
122.5°	117.5
125°	114.6
127.5°	111.7
130°	109.0
132.5°	106.2
135°	103.4
137.5°	100.6
140°	97.8
142.5°	95.1
145°	92.3
147.5°	89.8
150°	87.3
152.5°	84.6
155°	81.2
157.5°	78.0
160°	74.7
162.5°	70.9
165°	66.9
167.5°	62.0
170°	55.7
172.5°	47.9
175°	41.1
177.5°	38.3
180°	40.7

(END OF REPORT)