

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: 19427B

Luminaire Tested: **406-28-CF2/26**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 19427B
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 406-28-CF2/26
Description: INTERIOR SUSPENDED LUMINAIRE WITH WHITE INTERIOR AND NO LENS

Light Source: TWO 26 WATT CPFL LAMPS. LUMEN RATING = 3600 LMS.

Ballast/Driver: -

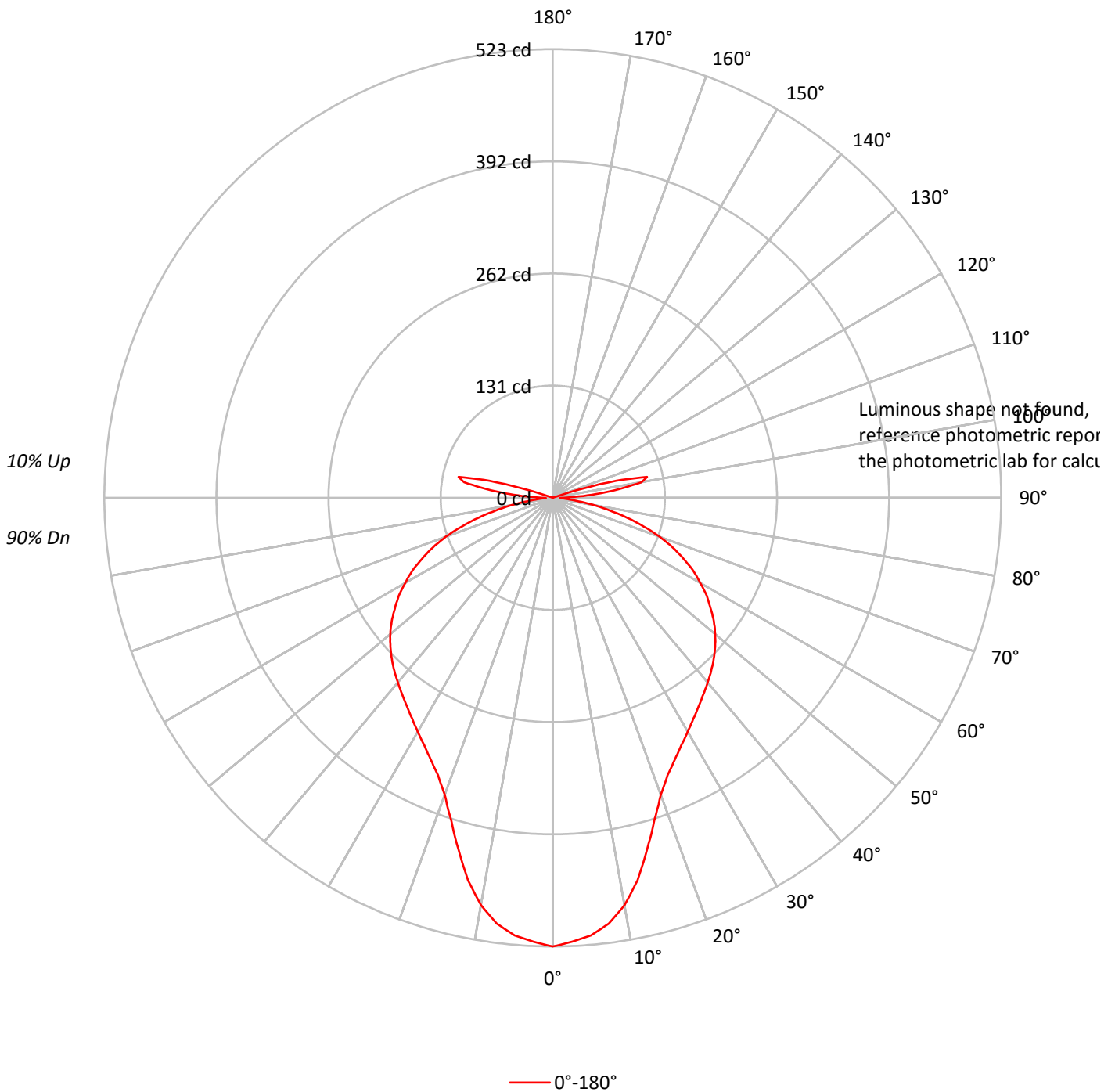
Summary

Lumens per Lamp: 3600 (1 lamp)
Luminaire Lumens: 1328.5 lumens
Efficiency: 36.9%
Efficacy: -
Spacing Criteria (0/90/45): 0.89 / 0.89 / 1.16
Luminous Opening: (L: 0 ' x W: -2.33 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 0
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: 19427B
CATALOG NUMBER: 406-28-CF2/26

Luminous Intensity Polar Plot



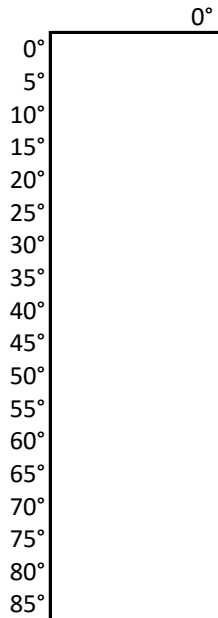


TEST NUMBER: 19427B
 CATALOG NUMBER: 406-28-CF2/26

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	43	43	43	43	42	42	42	42	39	39	39	37	37	37	34	34	34	33
1	39	37	36	34	38	36	35	33	34	33	32	32	31	30	30	29	29	28
2	36	32	30	28	34	31	29	27	30	28	26	28	26	25	26	25	24	23
3	32	28	25	23	31	28	25	23	26	24	22	24	22	21	23	21	20	19
4	30	25	22	19	28	24	21	19	23	20	18	22	20	18	21	19	17	16
5	27	22	19	17	26	22	19	16	21	18	16	19	17	15	18	16	15	14
6	25	20	17	14	24	20	17	14	19	16	14	18	15	13	17	15	13	12
7	23	18	15	13	22	18	15	13	17	14	12	16	14	12	15	13	12	11
8	22	17	14	11	21	16	13	11	15	13	11	15	12	11	14	12	10	10
9	20	15	12	10	19	15	12	10	14	12	10	14	11	10	13	11	9	9
10	19	14	11	9	18	14	11	9	13	11	9	13	10	9	12	10	9	8

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: 19427B
 CATALOG NUMBER: 406-28-CF2/26

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	47.9	3.6	1.3
10°-20°	118.8	8.9	3.3
20°-30°	155.9	11.7	4.3
30°-40°	186.2	14.0	5.2
40°-50°	204.9	15.4	5.7
50°-60°	201.0	15.1	5.6
60°-70°	166.0	12.5	4.6
70°-80°	94.7	7.1	2.6
80°-90°	22.9	1.7	0.6
90°-100°	57.5	4.3	1.6
100°-110°	72.5	5.5	2.0
110°-120°	0.2	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°	322.6	24.3	9.0
0°-40°	508.8	38.3	14.1
0°-60°	914.7	68.9	25.4
0°-90°	1198.3	90.2	33.3
90°-120°	130.2	9.8	3.6
90°-150°	130.2	9.8	3.6
90°-180°	130.0	9.8	3.6
0°-180°	1328.5	100.0	36.9

CANDELA DISTRIBUTION:

	0°	Flux
0°	523	
5°	512	48
15°	425	119
25°	337	156
35°	297	186
45°	266	205
55°	225	201
65°	168	166
75°	90	95
85°	17	21
90°	9	7
95°	50	53
105°	76	72
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	0



TEST NUMBER: 19427B
CATALOG NUMBER: 406-28-CF2/26

CANDELA DISTRIBUTION (FULL):

0°	
0°	523.0
2.5°	518.0
5°	512.0
7.5°	500.6
10°	482.0
12.5°	456.6
15°	424.6
17.5°	394.1
20°	368.2
22.5°	350.0
25°	336.6
27.5°	325.0
30°	314.8
32.5°	305.2
35°	296.7
37.5°	288.5
40°	281.1
42.5°	273.5
45°	265.5
47.5°	256.9
50°	247.3
52.5°	236.9
55°	224.9
57.5°	213.0
60°	198.9
62.5°	184.9
65°	168.4
67.5°	151.5
70°	132.7
72.5°	111.3
75°	90.0
77.5°	67.7
80°	47.8
82.5°	30.3
85°	17.4
87.5°	8.0
90°	9.3
92.5°	25.6
95°	50.4
97.5°	78.2
100°	104.9
102.5°	112.7
105°	76.2
107.5°	30.0
110°	1.5



TEST NUMBER: 19427B
CATALOG NUMBER: 406-28-CF2/26

CANDELA DISTRIBUTION (continued):

	0°
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.0
125°	0.0
127.5°	0.0
130°	0.0
132.5°	0.0
135°	0.0
137.5°	0.0
140°	0.0
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)