

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: 19375

Luminaire Tested: **233-14-SP-CF1/26**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 19375
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 233-14-SP-CF1/26
Description: INTERIOR CEILING MOUNT LUMINAIRE WITH WHITE GLASS LENS

Light Source: ONE SYLVANIA 26 WATT CPFL LAMP

CF26DT/E/IN/841. LUMEN RATING = 1800 LMS.

Ballast/Driver: -

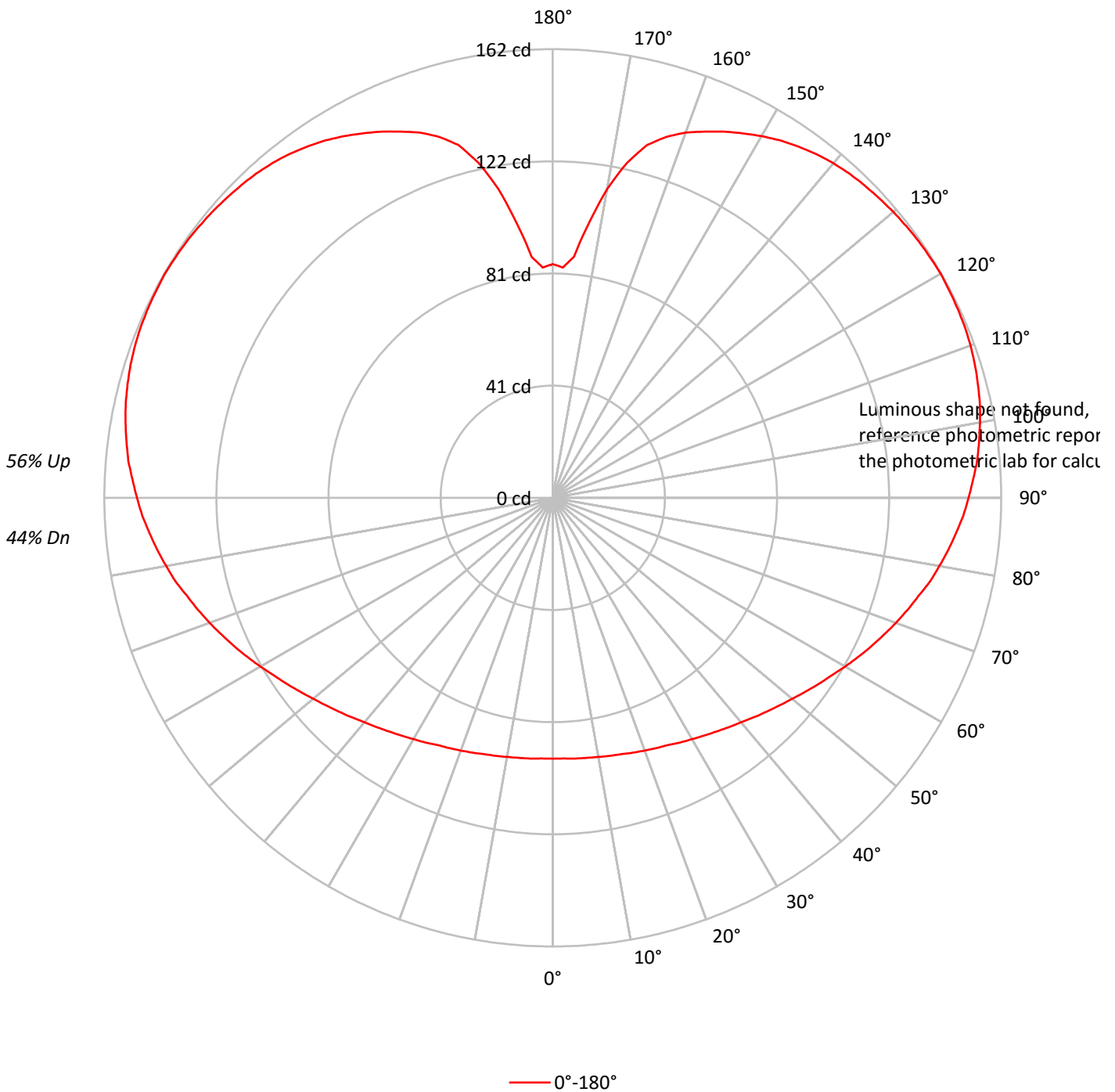
Summary

Lumens per Lamp: 1800 (1 lamp)
Luminaire Lumens: 1742.4 lumens
Efficiency: 96.8%
Efficacy: 62.2 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.69 / 1.95
Luminous Opening: (L: 0' x W: -0.08' x H: 0.58'
CIE Type: General Diffuse

Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): 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: 19375
CATALOG NUMBER: 233-14-SP-CF1/26

Luminous Intensity Polar Plot





TEST NUMBER: 19375

CATALOG NUMBER: 233-14-SP-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	102	102	102	102	94	94	94	94	77	77	77		63	63	63		49	49	49	43
1	89	83	78	73	81	75	71	66	61	58	55		48	46	43		36	35	33	27
2	79	70	63	56	72	64	57	51	52	46	42		40	36	33		30	27	25	19
3	72	60	52	45	64	55	47	41	44	38	34		34	30	26		25	22	19	15
4	65	53	44	37	58	48	40	34	39	32	28		30	25	22		22	18	16	12
5	59	46	38	31	53	42	34	28	34	28	23		26	22	18		19	16	13	10
6	54	41	33	26	49	38	30	24	30	24	20		24	19	15		17	14	11	8
7	50	37	29	23	45	34	26	21	27	21	17		21	17	13		16	12	10	7
8	46	33	25	20	42	30	23	18	25	19	15		19	15	12		14	11	8	6
9	43	30	23	17	39	28	21	16	23	17	13		18	13	10		13	10	7	5
10	40	28	20	15	36	25	19	14	21	15	12		16	12	9		12	9	7	5

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: 19375
 CATALOG NUMBER: 233-14-SP-CF1/26

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	9.0	0.5	0.5
10°-20°	27.2	1.6	1.5
20°-30°	45.7	2.6	2.5
30°-40°	64.8	3.7	3.6
40°-50°	84.7	4.9	4.7
50°-60°	105.3	6.0	5.8
60°-70°	126.0	7.2	7.0
70°-80°	144.9	8.3	8.0
80°-90°	159.5	9.2	8.9
90°-100°	167.6	9.6	9.3
100°-110°	168.1	9.6	9.3
110°-120°	160.1	9.2	8.9
120°-130°	144.7	8.3	8.0
130°-140°	123.4	7.1	6.9
140°-150°	97.2	5.6	5.4
150°-160°	67.6	3.9	3.8
160°-170°	37.2	2.1	2.1
170°-180°	9.3	0.5	0.5
0°-30°	82.0	4.7	4.6
0°-40°	146.8	8.4	8.2
0°-60°	336.8	19.3	18.7
0°-90°	767.2	44.0	42.6
90°-120°	495.8	28.5	27.5
90°-150°	861.2	49.4	47.8
90°-180°	975.0	56.0	54.2
0°-180°	1742.4	100.0	96.8

CANDELA DISTRIBUTION:

	0°	Flux
0°	94	
5°	94	9
15°	96	27
25°	98	46
35°	103	65
45°	109	85
55°	117	105
65°	127	126
75°	137	145
85°	146	119
90°	150	82
95°	154	126
105°	159	168
115°	161	160
125°	161	145
135°	159	123
145°	155	97
155°	146	68
165°	132	37
175°	87	9
180°	84	



TEST NUMBER: 19375
CATALOG NUMBER: 233-14-SP-CF1/26

CANDELA DISTRIBUTION (FULL):

	0°
0°	94.2
2.5°	94.2
5°	94.5
7.5°	94.7
10°	95.0
12.5°	95.4
15°	95.8
17.5°	96.5
20°	97.1
22.5°	97.8
25°	98.5
27.5°	99.6
30°	100.6
32.5°	101.8
35°	103.0
37.5°	104.4
40°	105.8
42.5°	107.5
45°	109.2
47.5°	111.0
50°	112.9
52.5°	115.0
55°	117.2
57.5°	119.4
60°	121.9
62.5°	124.4
65°	126.9
67.5°	129.4
70°	131.9
72.5°	134.4
75°	136.8
77.5°	139.6
80°	141.8
82.5°	144.1
85°	146.2
87.5°	148.4
90°	150.2
92.5°	152.0
95°	153.9
97.5°	155.3
100°	156.7
102.5°	158.0
105°	159.0
107.5°	159.9
110°	160.6



TEST NUMBER: 19375

CATALOG NUMBER: 233-14-SP-CF1/26

CANDELA DISTRIBUTION (continued):

	0°
112.5°	161.1
115°	161.4
117.5°	161.6
120°	161.8
122.5°	161.6
125°	161.4
127.5°	161.0
130°	160.6
132.5°	160.0
135°	159.4
137.5°	158.7
140°	157.7
142.5°	156.4
145°	154.8
147.5°	153.0
150°	150.8
152.5°	148.4
155°	145.9
157.5°	143.1
160°	140.3
162.5°	136.7
165°	131.9
167.5°	123.9
170°	113.2
172.5°	100.1
175°	87.3
177.5°	83.2
180°	84.4

(END OF REPORT)