

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: 19373

Luminaire Tested: **233-12-SH-CF2/26**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 19373
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 233-12-SH-CF2/26
Description: INTERIOR CEILING MOUNT LUMINAIRE WITH WHITE GLASS LENS

Light Source: TWO SYLVANIA 26 WATT CPFL LAMPS

CF26DT/E/IN/841. LUMEN RATING = 3600 LMS.

Ballast/Driver: -

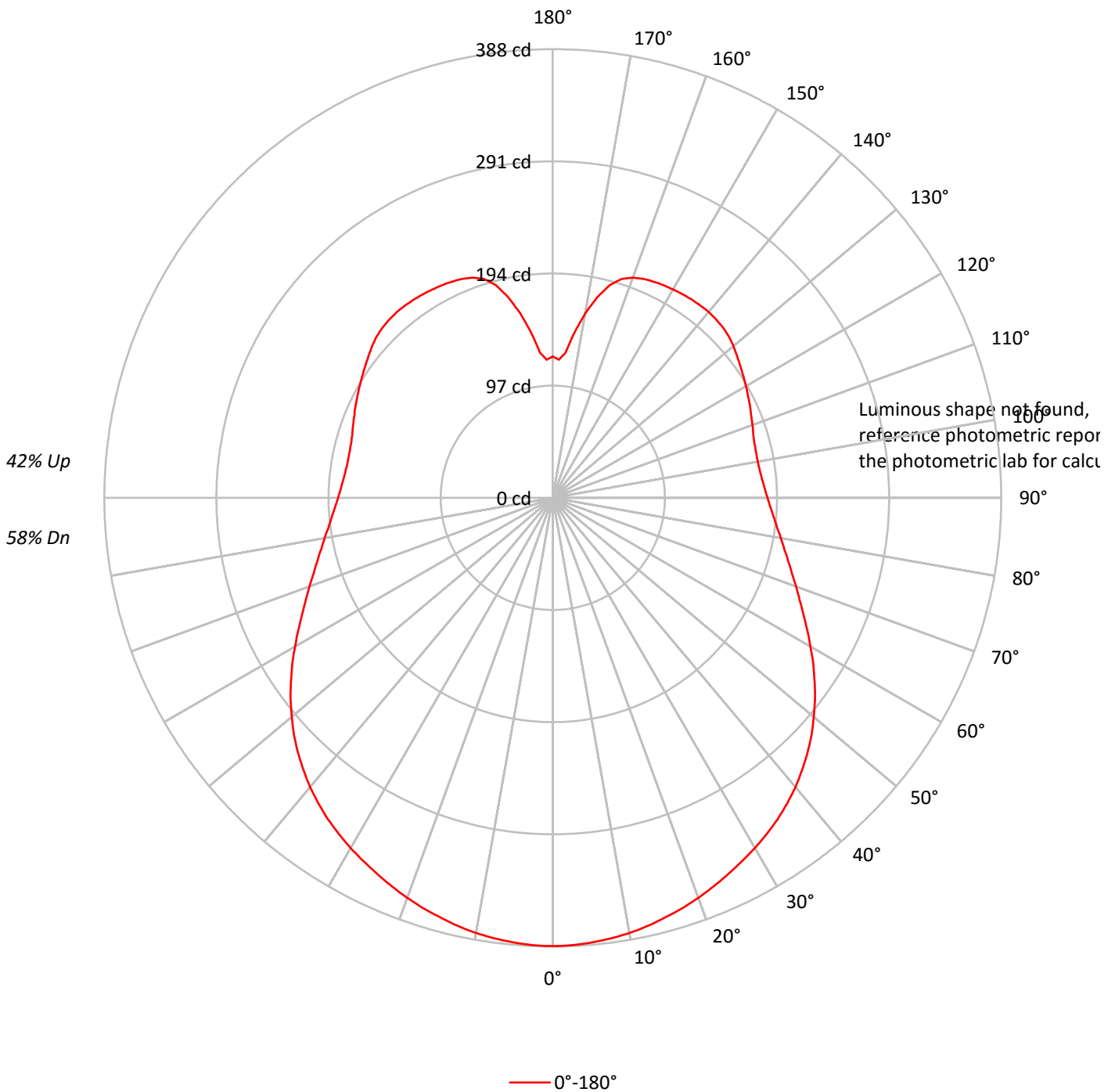
Summary

Lumens per Lamp: 3600 (1 lamp)
Luminaire Lumens: 2890.8 lumens
Efficiency: 80.3%
Efficacy: 54.5 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.35 / 1.52
Luminous Opening: (L: 0' x W: -0.08' x H: 0.38'
CIE Type: General Diffuse

Input Watts (W): 53
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

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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	0
RCR																				
0	88	88	88	88	82	82	82	82	71	71	71		60	60	60		51	51	51	47
1	77	73	68	65	72	68	64	60	58	55	52		49	47	45		41	39	38	34
2	69	62	56	51	64	58	52	48	49	45	42		42	38	36		35	32	30	26
3	63	54	47	41	58	50	44	39	43	38	34		36	32	29		30	27	25	21
4	57	47	40	34	53	44	37	32	38	32	28		32	28	24		26	23	21	18
5	52	42	34	29	48	39	32	27	33	28	24		28	24	21		24	20	18	15
6	48	37	30	25	44	35	28	23	30	25	21		25	21	18		21	18	15	13
7	44	34	27	22	41	31	25	20	27	22	18		23	19	16		19	16	13	11
8	41	30	24	19	38	28	22	18	25	19	16		21	17	14		18	14	12	10
9	38	28	21	17	35	26	20	16	22	18	14		19	15	12		16	13	11	9
10	36	25	19	15	33	24	18	14	21	16	13		18	14	11		15	12	10	8

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	36.7	1.3	1.0
10°-20°	106.3	3.7	3.0
20°-30°	165.9	5.7	4.6
30°-40°	212.5	7.4	5.9
40°-50°	240.8	8.3	6.7
50°-60°	247.7	8.6	6.9
60°-70°	237.9	8.2	6.6
70°-80°	223.4	7.7	6.2
80°-90°	209.8	7.3	5.8
90°-100°	198.8	6.9	5.5
100°-110°	191.7	6.6	5.3
110°-120°	186.8	6.5	5.2
120°-130°	177.8	6.2	4.9
130°-140°	160.8	5.6	4.5
140°-150°	131.4	4.5	3.7
150°-160°	95.4	3.3	2.7
160°-170°	53.6	1.9	1.5
170°-180°	13.3	0.5	0.4
0°-30°	308.9	10.7	8.6
0°-40°	521.5	18.0	14.5
0°-60°	1009.9	34.9	28.1
0°-90°	1681.0	58.2	46.7
90°-120°	577.3	20.0	16.0
90°-150°	1047.4	36.2	29.1
90°-180°	1210.0	41.9	33.6
0°-180°	2890.8	100.0	80.3

CANDELA DISTRIBUTION:

	0°	Flux
0°	388	
5°	386	37
15°	376	106
25°	359	166
35°	339	213
45°	312	241
55°	276	248
65°	239	238
75°	211	223
85°	192	159
90°	186	102
95°	182	148
105°	181	192
115°	188	187
125°	198	178
135°	208	161
145°	209	131
155°	206	95
165°	190	54
175°	126	13
180°	122	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	387.7
2.5°	387.3
5°	386.1
7.5°	384.3
10°	382.2
12.5°	379.3
15°	375.7
17.5°	372.3
20°	368.1
22.5°	363.7
25°	359.1
27.5°	354.4
30°	349.7
32.5°	344.6
35°	339.2
37.5°	333.1
40°	326.6
42.5°	319.3
45°	311.7
47.5°	303.7
50°	294.7
52.5°	286.0
55°	276.5
57.5°	267.2
60°	257.4
62.5°	248.3
65°	239.3
67.5°	231.2
70°	223.9
72.5°	216.9
75°	210.8
77.5°	205.2
80°	200.4
82.5°	195.7
85°	191.9
87.5°	188.5
90°	185.7
92.5°	183.5
95°	181.8
97.5°	180.7
100°	180.0
102.5°	180.2
105°	180.7
107.5°	181.9
110°	183.9

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	185.9
115°	188.3
117.5°	190.5
120°	193.0
122.5°	195.5
125°	198.1
127.5°	201.0
130°	204.1
132.5°	206.6
135°	208.2
137.5°	209.2
140°	209.9
142.5°	209.6
145°	209.4
147.5°	208.8
150°	208.1
152.5°	207.3
155°	206.3
157.5°	204.9
160°	202.6
162.5°	198.6
165°	190.3
167.5°	177.4
170°	161.8
172.5°	144.0
175°	125.8
177.5°	119.5
180°	122.3

(END OF REPORT)