

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: 19361

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 19361
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 233-12-SP-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: -

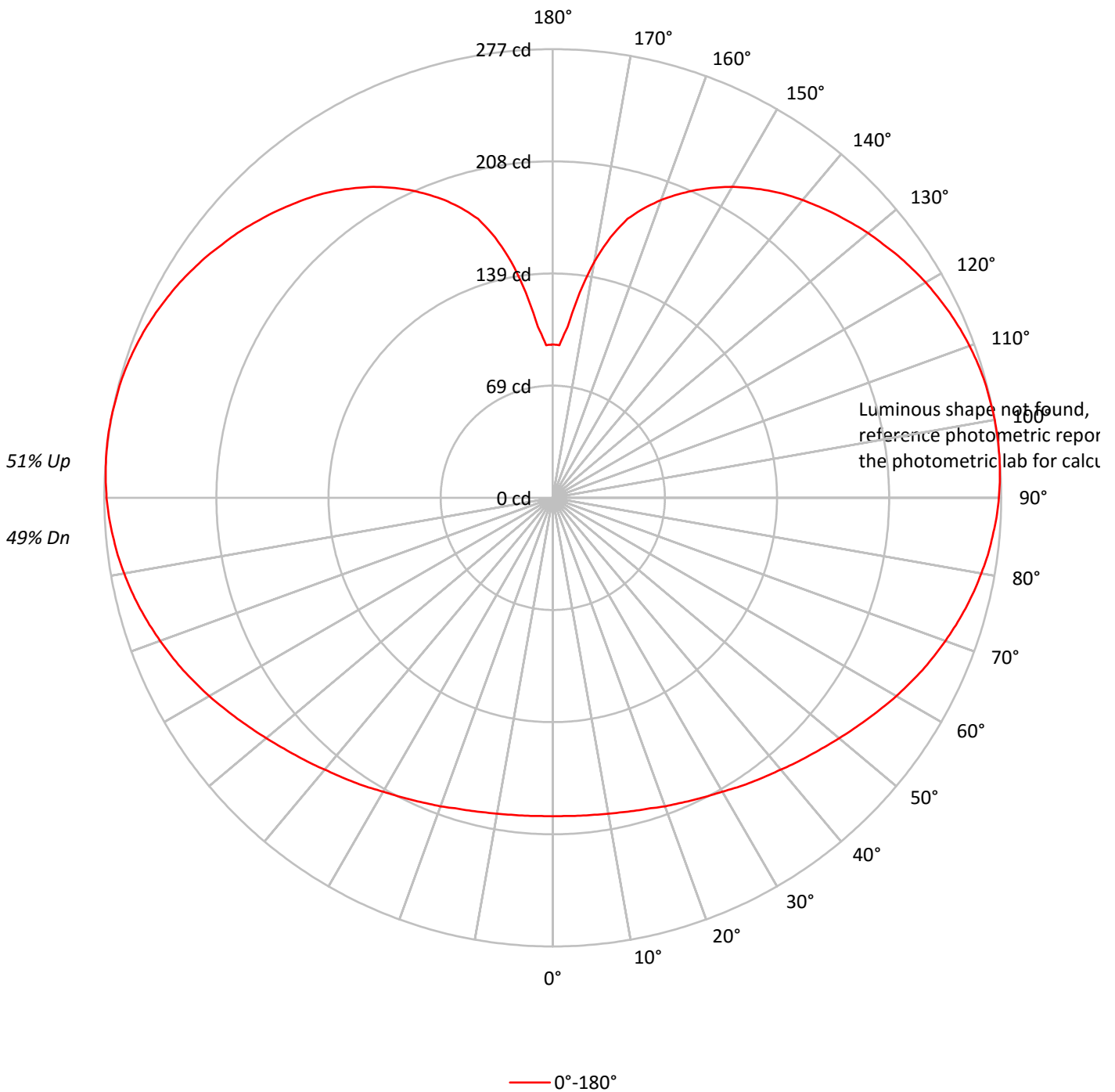
Summary

Lumens per Lamp: 3600 (1 lamp)
Luminaire Lumens: 3112.2 lumens
Efficiency: 86.4%
Efficacy: 58.7 lumens/watt
Spacing Criteria (0/90/45): 1.68 / 1.68 / 1.92
Luminous Opening: (L: 0 ' x W: -0.08 ' x H: 0.5 '
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	92	92	92	92	85	85	85	85	71	71	71		59	59	59		48	48	48	42
1	80	75	70	65	73	68	64	60	57	53	50		46	43	41		36	34	32	27
2	72	63	56	50	65	58	52	46	47	43	39		38	34	31		29	27	24	20
3	64	54	47	40	58	50	43	37	41	35	31		32	28	25		25	22	19	15
4	58	47	39	33	53	43	36	30	35	30	25		28	24	20		21	18	15	12
5	53	42	34	28	48	38	31	25	31	26	21		25	20	17		19	16	13	10
6	49	37	29	23	44	34	27	22	28	22	18		22	18	14		17	14	11	8
7	45	33	26	20	41	30	24	19	25	20	16		20	16	12		15	12	9	7
8	42	30	23	18	38	27	21	16	23	17	14		18	14	11		14	11	8	6
9	39	27	20	15	35	25	19	14	21	16	12		17	13	10		13	10	7	5
10	36	25	18	14	33	23	17	13	19	14	11		15	11	9		12	9	7	5

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	18.8	0.6	0.5
10°-20°	56.8	1.8	1.6
20°-30°	95.4	3.1	2.6
30°-40°	134.7	4.3	3.7
40°-50°	174.2	5.6	4.8
50°-60°	213.5	6.9	5.9
60°-70°	249.9	8.0	6.9
70°-80°	279.1	9.0	7.8
80°-90°	297.4	9.6	8.3
90°-100°	302.0	9.7	8.4
100°-110°	292.0	9.4	8.1
110°-120°	268.3	8.6	7.5
120°-130°	233.6	7.5	6.5
130°-140°	191.6	6.2	5.3
140°-150°	145.6	4.7	4.0
150°-160°	97.2	3.1	2.7
160°-170°	50.5	1.6	1.4
170°-180°	11.6	0.4	0.3
0°-30°	171.0	5.5	4.7
0°-40°	305.7	9.8	8.5
0°-60°	693.4	22.3	19.3
0°-90°	1519.8	48.8	42.2
90°-120°	862.3	27.7	24.0
90°-150°	1433.1	46.0	39.8
90°-180°	1592.0	51.2	44.2
0°-180°	3112.2	100.0	86.4

CANDELA DISTRIBUTION:

	0°	Flux
0°	197	
5°	197	19
15°	200	57
25°	206	95
35°	214	135
45°	225	174
55°	238	213
65°	252	250
75°	264	279
85°	273	222
90°	276	151
95°	277	226
105°	276	292
115°	270	268
125°	260	234
135°	247	192
145°	232	146
155°	210	97
165°	178	50
175°	106	12
180°	95	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	196.6
2.5°	196.6
5°	197.0
7.5°	197.4
10°	198.0
12.5°	198.8
15°	199.9
17.5°	201.0
20°	202.7
22.5°	204.1
25°	205.8
27.5°	207.6
30°	209.5
32.5°	211.9
35°	214.3
37.5°	216.6
40°	219.0
42.5°	222.0
45°	224.7
47.5°	227.7
50°	230.9
52.5°	234.3
55°	237.7
57.5°	241.3
60°	245.0
62.5°	248.3
65°	251.9
67.5°	255.0
70°	258.1
72.5°	261.1
75°	263.9
77.5°	266.5
80°	268.8
82.5°	271.0
85°	272.7
87.5°	274.4
90°	275.6
92.5°	276.4
95°	277.0
97.5°	277.3
100°	277.2
102.5°	276.7
105°	276.3
107.5°	275.3
110°	274.0



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	272.4
115°	270.5
117.5°	268.2
120°	266.0
122.5°	263.2
125°	260.5
127.5°	257.2
130°	254.3
132.5°	250.8
135°	247.4
137.5°	243.7
140°	240.0
142.5°	236.1
145°	231.7
147.5°	226.8
150°	221.7
152.5°	215.9
155°	209.7
157.5°	202.9
160°	195.7
162.5°	187.5
165°	178.3
167.5°	164.8
170°	148.1
172.5°	127.8
175°	106.0
177.5°	94.3
180°	94.7

(END OF REPORT)