

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: 19374

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 19374
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 233-14-SH-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: -

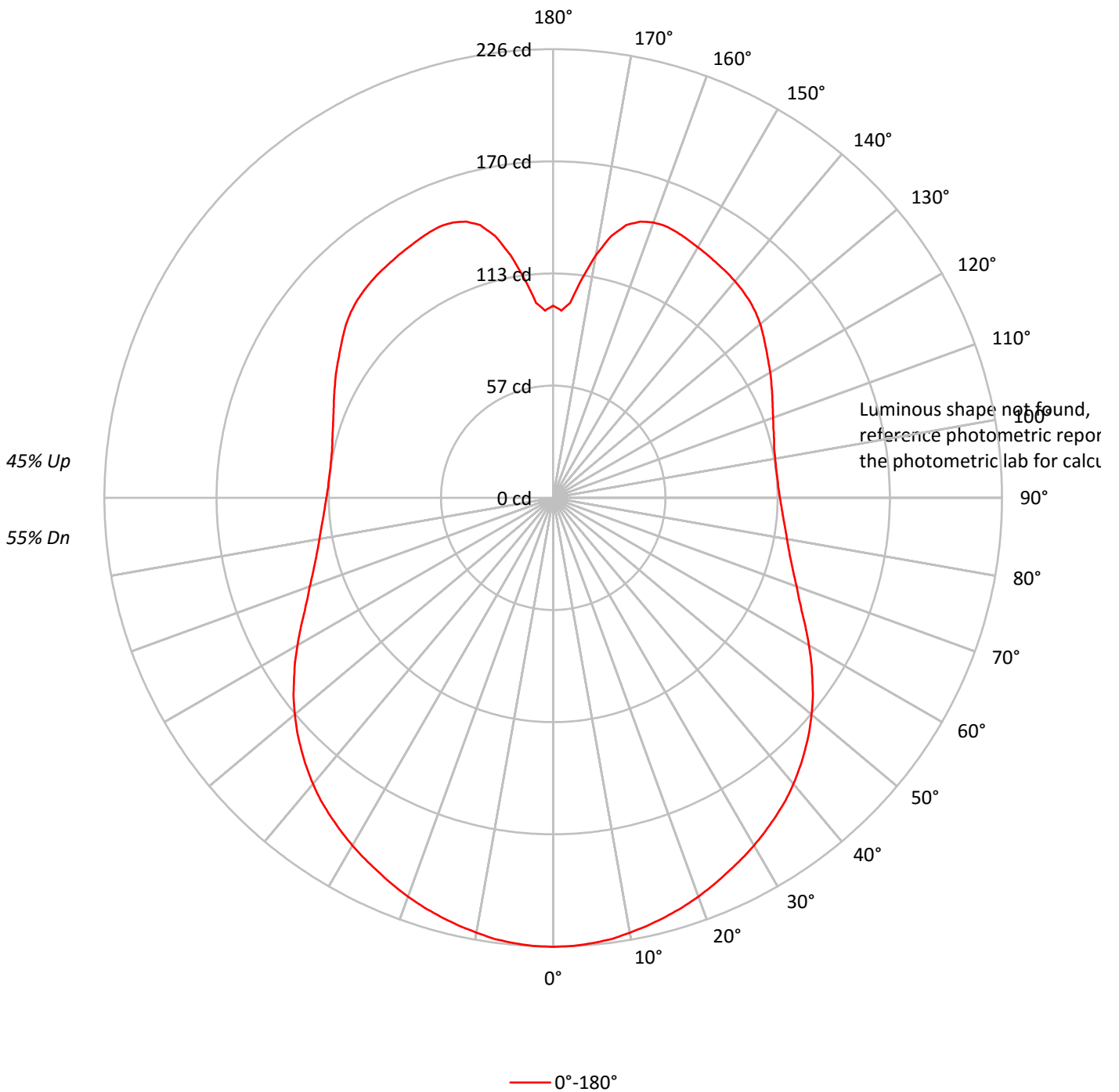
Summary

Lumens per Lamp: 1800 (1 lamp)
Luminaire Lumens: 1780.7 lumens
Efficiency: 98.9%
Efficacy: 63.6 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.5
Luminous Opening: (L: 0 ' x W: -0.08 ' x H: 0.46 '
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

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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	107	107	107	107	100	100	100	100	85	85	85		72	72	72		60	60	60	54
1	95	89	84	79	87	82	78	74	70	66	63		59	56	54		48	46	44	39
2	85	76	69	62	78	70	64	58	60	55	50		50	46	42		41	38	35	31
3	77	66	57	51	71	61	53	47	52	46	41		43	39	35		35	32	29	25
4	70	58	49	42	64	54	46	39	45	39	34		38	33	29		31	27	24	20
5	64	51	42	36	59	47	39	33	40	34	29		34	29	25		28	24	21	17
6	59	46	37	31	54	42	34	29	36	30	25		30	25	21		25	21	18	15
7	54	41	33	27	50	38	30	25	33	26	22		27	22	19		23	19	16	13
8	50	37	29	23	46	35	27	22	30	24	19		25	20	16		21	17	14	11
9	47	34	26	21	43	32	24	19	27	21	17		23	18	15		19	15	12	10
10	44	31	23	18	40	29	22	17	25	19	15		21	17	13		18	14	11	9

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	21.4	1.2	1.2
10°-20°	61.8	3.5	3.4
20°-30°	96.1	5.4	5.3
30°-40°	122.6	6.9	6.8
40°-50°	138.6	7.8	7.7
50°-60°	142.8	8.0	7.9
60°-70°	137.7	7.7	7.7
70°-80°	131.5	7.4	7.3
80°-90°	127.1	7.1	7.1
90°-100°	123.8	7.0	6.9
100°-110°	121.9	6.8	6.8
110°-120°	120.8	6.8	6.7
120°-130°	117.4	6.6	6.5
130°-140°	108.1	6.1	6.0
140°-150°	90.5	5.1	5.0
150°-160°	68.1	3.8	3.8
160°-170°	39.9	2.2	2.2
170°-180°	10.3	0.6	0.6
0°-30°	179.3	10.1	10.0
0°-40°	302.0	17.0	16.8
0°-60°	583.4	32.8	32.4
0°-90°	979.8	55.0	54.4
90°-120°	366.6	20.6	20.4
90°-150°	682.6	38.3	37.9
90°-180°	801.0	45.0	44.5
0°-180°	1780.7	100.0	98.9

CANDELA DISTRIBUTION:

	0°	Flux
0°	226	
5°	225	21
15°	218	62
25°	208	96
35°	196	123
45°	179	139
55°	159	143
65°	138	138
75°	124	131
85°	116	96
90°	114	63
95°	113	93
105°	115	122
115°	122	121
125°	131	117
135°	140	108
145°	144	90
155°	148	68
165°	142	40
175°	98	10
180°	97	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	226.2
2.5°	225.9
5°	225.2
7.5°	224.2
10°	222.4
12.5°	220.6
15°	218.5
17.5°	216.3
20°	213.8
22.5°	211.0
25°	208.0
27.5°	205.2
30°	202.2
32.5°	199.0
35°	195.6
37.5°	192.2
40°	188.2
42.5°	183.9
45°	179.4
47.5°	174.8
50°	169.8
52.5°	164.8
55°	159.3
57.5°	154.1
60°	148.7
62.5°	143.5
65°	138.4
67.5°	134.1
70°	130.4
72.5°	126.9
75°	124.0
77.5°	121.5
80°	119.5
82.5°	117.8
85°	116.3
87.5°	115.1
90°	114.2
92.5°	113.5
95°	113.3
97.5°	113.2
100°	113.5
102.5°	114.0
105°	115.1
107.5°	116.3
110°	117.8



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	119.6
115°	121.7
117.5°	123.9
120°	126.2
122.5°	128.4
125°	130.8
127.5°	133.5
130°	136.1
132.5°	138.3
135°	140.0
137.5°	141.3
140°	142.4
142.5°	143.3
145°	144.0
147.5°	144.9
150°	145.7
152.5°	146.6
155°	147.6
157.5°	148.1
160°	147.6
162.5°	145.9
165°	142.2
167.5°	135.0
170°	124.1
172.5°	111.2
175°	98.5
177.5°	94.4
180°	96.8

(END OF REPORT)