

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: 19855

Luminaire Tested: **248-EL-16-CF2/26**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 19855
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 248-EL-16-CF2/26
Description: INTERIOR CEILING MOUNT LUMINAIRE WITH WHITE INTERIOR AND WHITE
PLASTIC BOWL LENS
Light Source: TWO SYLVANIA 26 WATT CPFL LAMPS

CF26DD/E/841. LUMEN RATING = 3600 LMS.

Ballast/Driver: -

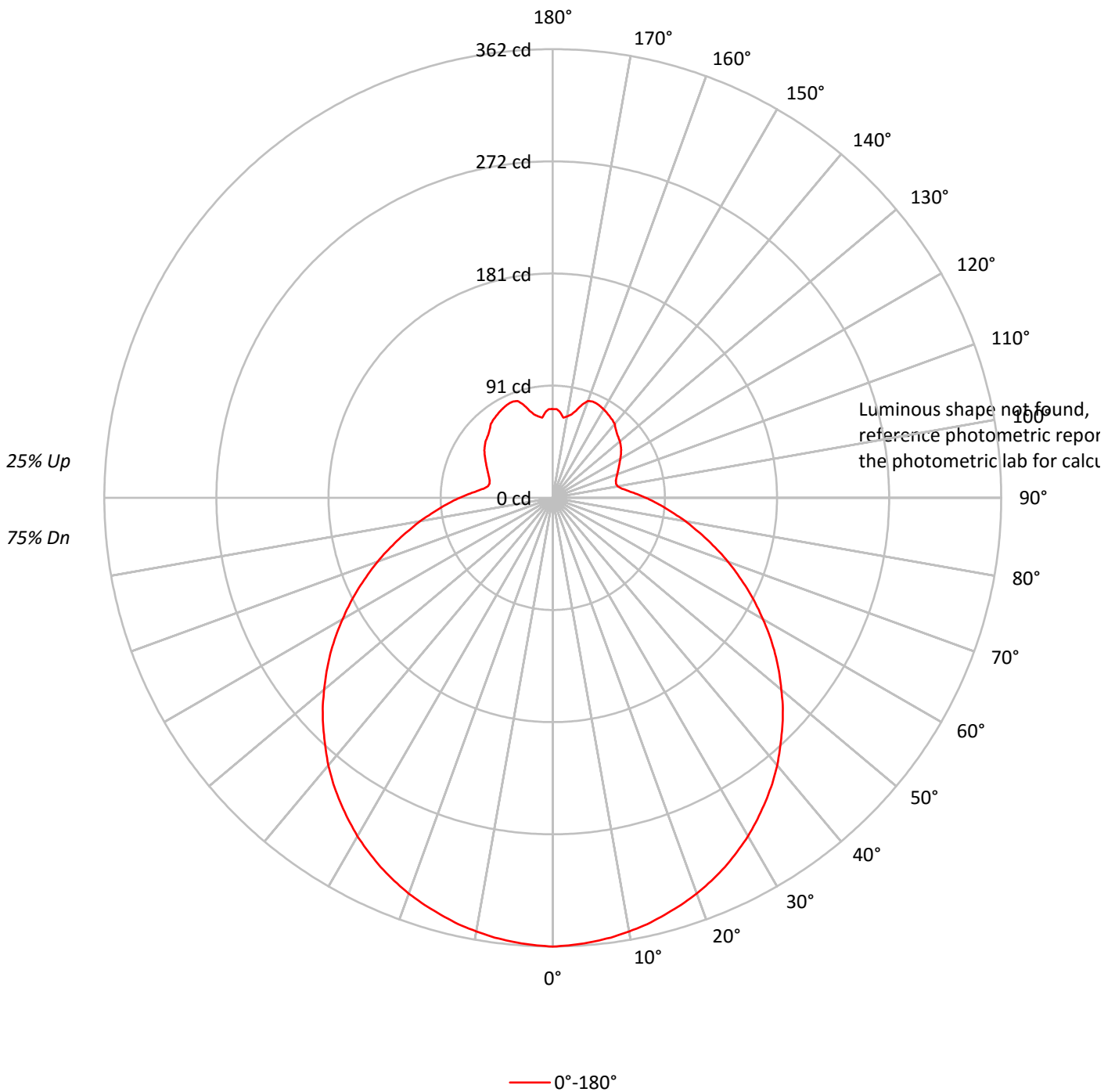
Summary

Lumens per Lamp: 3600 (1 lamp)
Luminaire Lumens: 1693.6 lumens
Efficiency: 47.0%
Efficacy: 37.6 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.43
Luminous Opening: (L: 0' x W: -0.08' x H: 0.25'
CIE Type: Semi-Direct

Input Watts (W): 45
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	53	53	53	53	51	51	51	51	46	46	46	41	41	41	37	37	37	35
1	47	45	43	40	45	43	41	39	39	37	35	35	33	32	31	30	29	27
2	43	39	35	32	40	37	33	31	33	31	28	30	28	26	27	25	24	22
3	39	34	29	26	37	32	28	25	29	26	23	26	24	21	23	21	20	18
4	35	30	25	22	33	28	24	21	25	22	20	23	20	18	21	18	17	15
5	32	26	22	19	31	25	21	18	23	19	17	21	18	16	19	16	14	13
6	30	23	19	16	28	22	18	16	20	17	15	18	16	14	17	14	13	11
7	28	21	17	14	26	20	16	14	18	15	13	17	14	12	15	13	11	10
8	26	19	15	12	24	18	15	12	17	14	11	15	13	11	14	12	10	9
9	24	18	14	11	23	17	13	11	15	12	10	14	11	9	13	11	9	8
10	22	16	12	10	21	15	12	10	14	11	9	13	10	9	12	10	8	7

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	34.2	2.0	1.0
10°-20°	98.5	5.8	2.7
20°-30°	151.6	9.0	4.2
30°-40°	187.5	11.1	5.2
40°-50°	202.3	11.9	5.6
50°-60°	195.9	11.6	5.4
60°-70°	171.5	10.1	4.8
70°-80°	136.2	8.0	3.8
80°-90°	99.3	5.9	2.8
90°-100°	68.3	4.0	1.9
100°-110°	56.4	3.3	1.6
110°-120°	58.4	3.5	1.6
120°-130°	60.2	3.6	1.7
130°-140°	57.0	3.4	1.6
140°-150°	50.3	3.0	1.4
150°-160°	38.6	2.3	1.1
160°-170°	21.2	1.3	0.6
170°-180°	6.4	0.4	0.2
0°-30°	284.3	16.8	7.9
0°-40°	471.7	27.9	13.1
0°-60°	870.0	51.4	24.2
0°-90°	1276.9	75.4	35.5
90°-120°	183.1	10.8	5.1
90°-150°	350.5	20.7	9.7
90°-180°	417.0	24.6	11.6
0°-180°	1693.6	100.0	47.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	362	
5°	360	34
15°	348	98
25°	329	152
35°	299	187
45°	262	202
55°	219	196
65°	173	171
75°	129	136
85°	90	78
90°	75	41
95°	62	49
105°	53	56
115°	59	58
125°	67	60
135°	73	57
145°	80	50
155°	84	39
165°	73	21
175°	69	6
180°	72	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	362.1
2.5°	361.2
5°	359.8
7.5°	357.9
10°	355.3
12.5°	352.3
15°	348.4
17.5°	344.4
20°	339.8
22.5°	334.5
25°	328.7
27.5°	322.1
30°	315.3
32.5°	307.4
35°	299.3
37.5°	290.9
40°	281.9
42.5°	271.8
45°	262.0
47.5°	251.9
50°	240.9
52.5°	230.1
55°	219.1
57.5°	207.7
60°	195.9
62.5°	184.5
65°	172.9
67.5°	161.5
70°	150.5
72.5°	139.1
75°	128.6
77.5°	118.2
80°	108.7
82.5°	99.1
85°	90.5
87.5°	82.7
90°	75.1
92.5°	68.1
95°	61.5
97.5°	56.4
100°	53.2
102.5°	52.3
105°	52.7
107.5°	53.9
110°	55.3

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	57.0
115°	58.8
117.5°	60.8
120°	62.9
122.5°	65.2
125°	67.4
127.5°	69.1
130°	70.8
132.5°	71.9
135°	73.2
137.5°	75.2
140°	77.7
142.5°	79.1
145°	80.1
147.5°	81.3
150°	82.3
152.5°	83.2
155°	83.9
157.5°	84.1
160°	83.1
162.5°	78.8
165°	72.9
167.5°	68.7
170°	66.7
172.5°	65.2
175°	69.2
177.5°	71.7
180°	71.6

(END OF REPORT)