

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: 19371

Luminaire Tested: **230-CF2/26**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 19371
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 230-CF2/26
Description: INTERIOR CEILING MOUNT LUMINAIRE WITH WHITE INTERIOR AND WHITE PLASTIC LENS
Light Source: TWO SYLVANIA 26 WATT CPFL LAMPS

CF26DD/E/830. LUMEN RATING = 3600 LMS.

Ballast/Driver: -

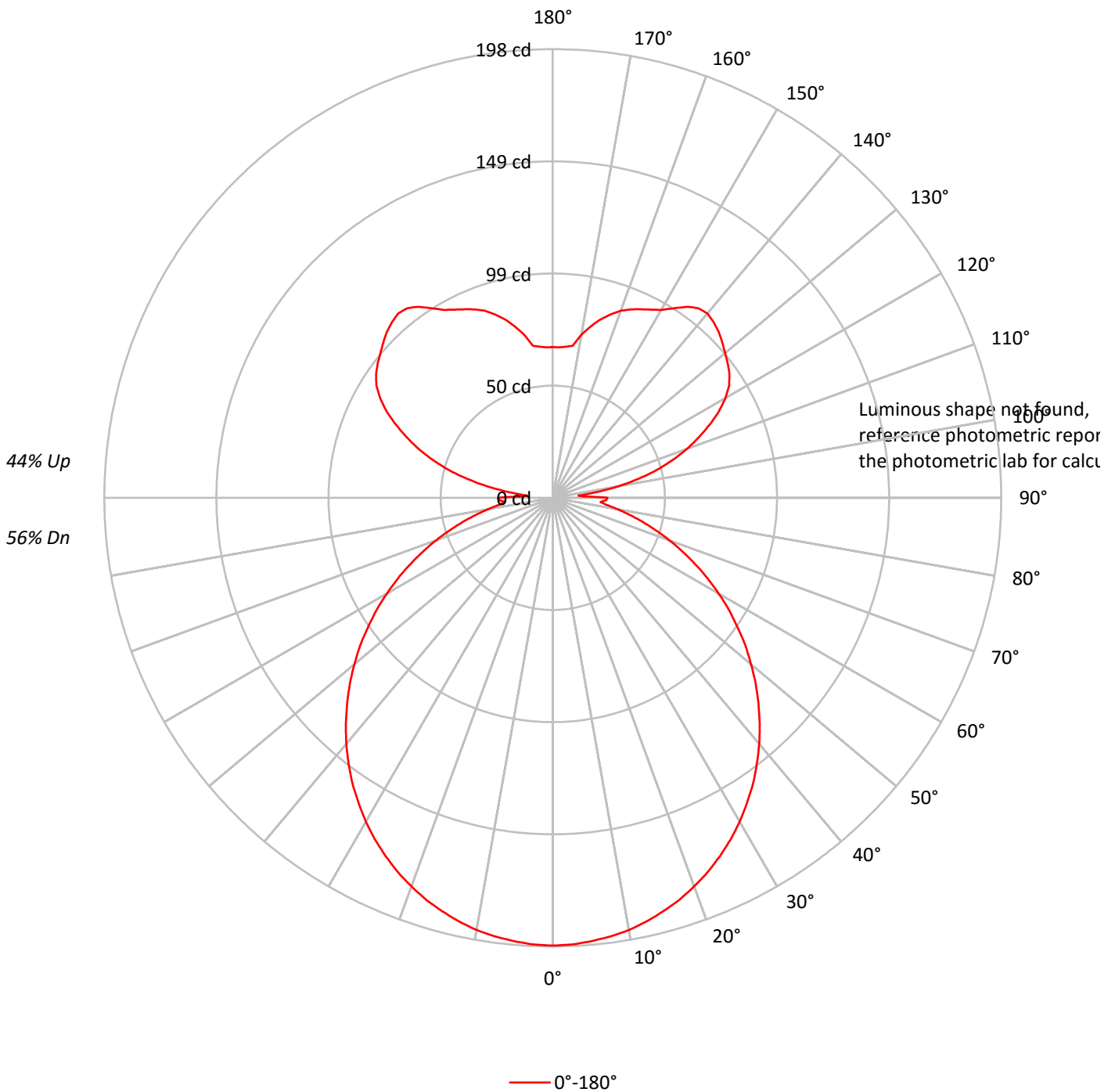
Summary

Lumens per Lamp: 3600 (1 lamp)
Luminaire Lumens: 1021.1 lumens
Efficiency: 28.4%
Efficacy: 22.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36
Luminous Opening: (L: 0' x W: -0.08' x H: 0.11'
CIE Type: General Diffuse

Input Watts (W): 46
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	31	31	31	31	29	29	29	29	25	25	25	21	21	21	18	18	18	16
1	28	27	25	24	26	25	24	23	21	21	20	18	18	17	15	15	14	13
2	25	23	21	20	23	22	20	19	19	17	16	16	15	14	13	13	12	11
3	23	20	18	16	21	19	17	15	16	15	14	14	13	12	12	11	10	9
4	21	18	16	14	20	17	15	13	14	13	12	12	11	10	10	9	9	8
5	19	16	14	12	18	15	13	11	13	11	10	11	10	9	9	8	8	7
6	18	14	12	10	16	13	11	10	12	10	9	10	9	8	8	7	7	6
7	16	13	11	9	15	12	10	8	11	9	8	9	8	7	8	7	6	5
8	15	12	9	8	14	11	9	8	10	8	7	8	7	6	7	6	5	5
9	14	11	9	7	13	10	8	7	9	7	6	8	6	5	7	6	5	4
10	13	10	8	6	12	9	7	6	8	7	5	7	6	5	6	5	4	4

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	18.7	1.8	0.5
10°-20°	53.3	5.2	1.5
20°-30°	80.4	7.9	2.2
30°-40°	96.3	9.4	2.7
40°-50°	99.1	9.7	2.8
50°-60°	89.1	8.7	2.5
60°-70°	68.8	6.7	1.9
70°-80°	43.7	4.3	1.2
80°-90°	26.0	2.5	0.7
90°-100°	19.5	1.9	0.5
100°-110°	49.7	4.9	1.4
110°-120°	75.4	7.4	2.1
120°-130°	84.8	8.3	2.4
130°-140°	79.9	7.8	2.2
140°-150°	64.3	6.3	1.8
150°-160°	42.6	4.2	1.2
160°-170°	23.2	2.3	0.6
170°-180°	6.5	0.6	0.2
0°-30°	152.4	14.9	4.2
0°-40°	248.7	24.4	6.9
0°-60°	436.9	42.8	12.1
0°-90°	575.4	56.3	16.0
90°-120°	144.5	14.1	4.0
90°-150°	373.5	36.6	10.4
90°-180°	446.0	43.7	12.4
0°-180°	1021.1	100.0	28.4

CANDELA DISTRIBUTION:

	0°	Flux
0°	198	
5°	196	19
15°	189	53
25°	174	80
35°	154	96
45°	128	99
55°	100	89
65°	69	69
75°	41	44
85°	21	19
90°	24	12
95°	11	14
105°	48	50
115°	76	75
125°	95	85
135°	104	80
145°	103	64
155°	92	43
165°	82	23
175°	67	7
180°	66	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	197.6
2.5°	197.3
5°	196.4
7.5°	195.2
10°	193.7
12.5°	191.5
15°	188.8
17.5°	186.0
20°	182.5
22.5°	178.8
25°	174.5
27.5°	170.0
30°	165.0
32.5°	159.6
35°	154.1
37.5°	148.0
40°	141.8
42.5°	135.2
45°	128.4
47.5°	121.5
50°	114.3
52.5°	107.2
55°	99.5
57.5°	92.3
60°	84.6
62.5°	77.1
65°	69.4
67.5°	62.0
70°	54.8
72.5°	47.7
75°	41.1
77.5°	34.7
80°	29.1
82.5°	23.9
85°	21.1
87.5°	23.6
90°	24.2
92.5°	13.5
95°	11.4
97.5°	19.7
100°	29.5
102.5°	38.8
105°	47.7
107.5°	55.5
110°	63.0



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	69.7
115°	76.4
117.5°	82.7
120°	88.0
122.5°	92.3
125°	95.2
127.5°	97.4
130°	99.3
132.5°	101.5
135°	103.6
137.5°	105.1
140°	106.2
142.5°	105.5
145°	102.9
147.5°	99.1
150°	95.7
152.5°	93.6
155°	91.8
157.5°	90.0
160°	87.9
162.5°	84.8
165°	81.5
167.5°	77.5
170°	73.1
172.5°	67.7
175°	66.9
177.5°	66.5
180°	66.5

(END OF REPORT)