

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: 19378

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 19378
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 248-DP-16-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: -

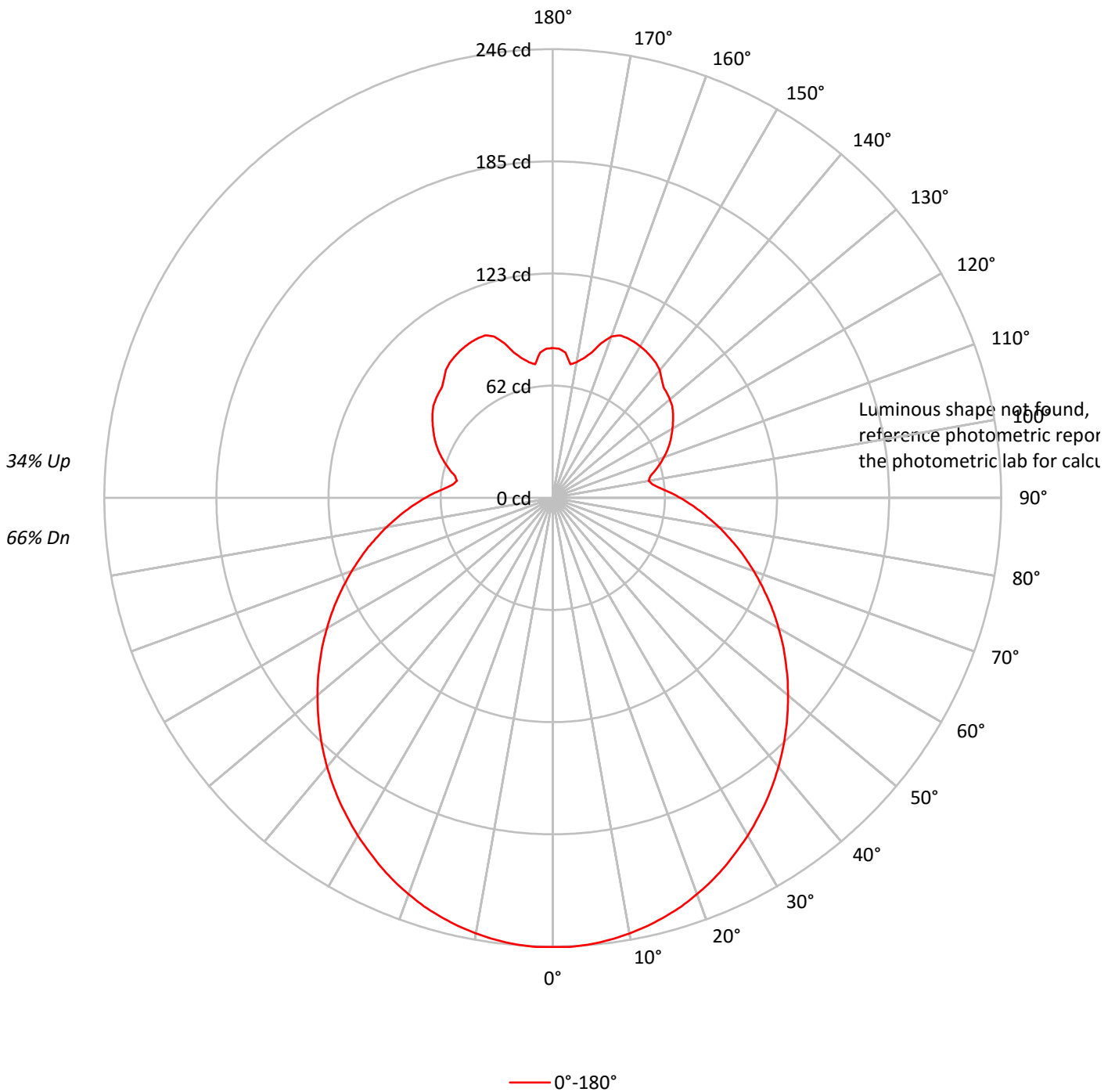
Summary

Lumens per Lamp: 3600 (1 lamp)
Luminaire Lumens: 1399.8 lumens
Efficiency: 38.9%
Efficacy: 31.1 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.44
Luminous Opening: (L: 0' x W: -0.08' x H: 0.37'
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

TEST NUMBER: 19378
CATALOG NUMBER: 248-DP-16-CF2/26

Luminous Intensity Polar Plot





TEST NUMBER: 19378

CATALOG NUMBER: 248-DP-16-CF2/26

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	43	43	43	43	41	41	41	41	36	36	36	32	32	32	28	28	28	26
1	38	36	34	32	36	34	32	31	30	29	27	26	25	24	23	22	21	19
2	34	31	28	26	32	29	27	24	26	24	22	22	21	19	19	18	17	15
3	31	27	24	21	29	25	22	20	22	20	18	19	18	16	17	15	14	13
4	28	24	20	17	27	22	19	17	20	17	15	17	15	13	15	13	12	11
5	26	21	17	15	24	20	17	14	17	15	13	15	13	11	13	12	10	9
6	24	19	15	13	22	18	14	12	16	13	11	14	12	10	12	10	9	8
7	22	17	13	11	21	16	13	11	14	12	10	12	10	9	11	9	8	7
8	21	15	12	10	19	14	11	9	13	10	9	11	9	8	10	8	7	6
9	19	14	11	9	18	13	10	8	12	9	8	10	8	7	9	7	6	5
10	18	13	10	8	17	12	9	7	11	8	7	10	8	6	9	7	6	5

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: 19378

CATALOG NUMBER: 248-DP-16-CF2/26

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	23.3	1.7	0.6
10°-20°	67.2	4.8	1.9
20°-30°	103.0	7.4	2.9
30°-40°	127.6	9.1	3.5
40°-50°	139.7	10.0	3.9
50°-60°	139.6	10.0	3.9
60°-70°	129.0	9.2	3.6
70°-80°	110.7	7.9	3.1
80°-90°	88.3	6.3	2.5
90°-100°	65.7	4.7	1.8
100°-110°	61.8	4.4	1.7
110°-120°	70.0	5.0	1.9
120°-130°	72.0	5.1	2.0
130°-140°	67.0	4.8	1.9
140°-150°	59.0	4.2	1.6
150°-160°	44.5	3.2	1.2
160°-170°	24.0	1.7	0.7
170°-180°	7.3	0.5	0.2
0°-30°	193.5	13.8	5.4
0°-40°	321.0	22.9	8.9
0°-60°	600.3	42.9	16.7
0°-90°	928.4	66.3	25.8
90°-120°	197.5	14.1	5.5
90°-150°	395.6	28.3	11.0
90°-180°	471.0	33.6	13.1
0°-180°	1399.8	100.0	38.9

CANDELA DISTRIBUTION:

	0°	Flux
0°	246	
5°	246	23
15°	238	67
25°	223	103
35°	204	128
45°	181	140
55°	156	140
65°	130	129
75°	105	111
85°	81	68
90°	70	38
95°	59	47
105°	58	62
115°	71	70
125°	80	72
135°	86	67
145°	94	59
155°	97	45
165°	82	24
175°	80	7
180°	82	

TEST NUMBER: 19378

CATALOG NUMBER: 248-DP-16-CF2/26

CANDELA DISTRIBUTION (FULL):

0°	
0°	246.3
2.5°	246.4
5°	245.6
7.5°	244.3
10°	242.5
12.5°	240.4
15°	237.8
17.5°	234.9
20°	231.3
22.5°	227.5
25°	223.2
27.5°	218.5
30°	213.9
32.5°	208.8
35°	203.7
37.5°	198.2
40°	192.6
42.5°	186.8
45°	180.8
47.5°	174.7
50°	168.4
52.5°	162.3
55°	155.8
57.5°	149.6
60°	143.0
62.5°	136.6
65°	130.1
67.5°	123.6
70°	117.3
72.5°	110.9
75°	104.8
77.5°	98.4
80°	92.6
82.5°	86.5
85°	80.9
87.5°	75.2
90°	69.9
92.5°	64.5
95°	59.3
97.5°	55.3
100°	53.4
102.5°	54.8
105°	58.3
107.5°	61.6
110°	64.9



TEST NUMBER: 19378

CATALOG NUMBER: 248-DP-16-CF2/26

CANDELA DISTRIBUTION (continued):

	0°
112.5°	68.0
115°	70.8
117.5°	73.4
120°	75.8
122.5°	78.2
125°	80.5
127.5°	82.6
130°	83.9
132.5°	84.9
135°	85.9
137.5°	88.3
140°	91.3
142.5°	93.1
145°	94.2
147.5°	95.2
150°	95.9
152.5°	96.4
155°	96.7
157.5°	96.4
160°	94.1
162.5°	89.0
165°	82.4
167.5°	78.3
170°	75.5
172.5°	73.8
175°	80.0
177.5°	81.8
180°	82.1

(END OF REPORT)