

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: 19425

Luminaire Tested: **404-28-CF4/26**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 19425
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 404-28-CF4/26
Description: INTERIOR SUSPENDED LUMINAIRE WITH WHITE INTERIOR AND WHITE PLASTIC
BOWL LENS
Light Source: FOUR SYLVANIA 26 WATT CPFL LAMPS

CF26DT/E/IN/830. LUMEN RATING = 7200 LMS.

Ballast/Driver: -

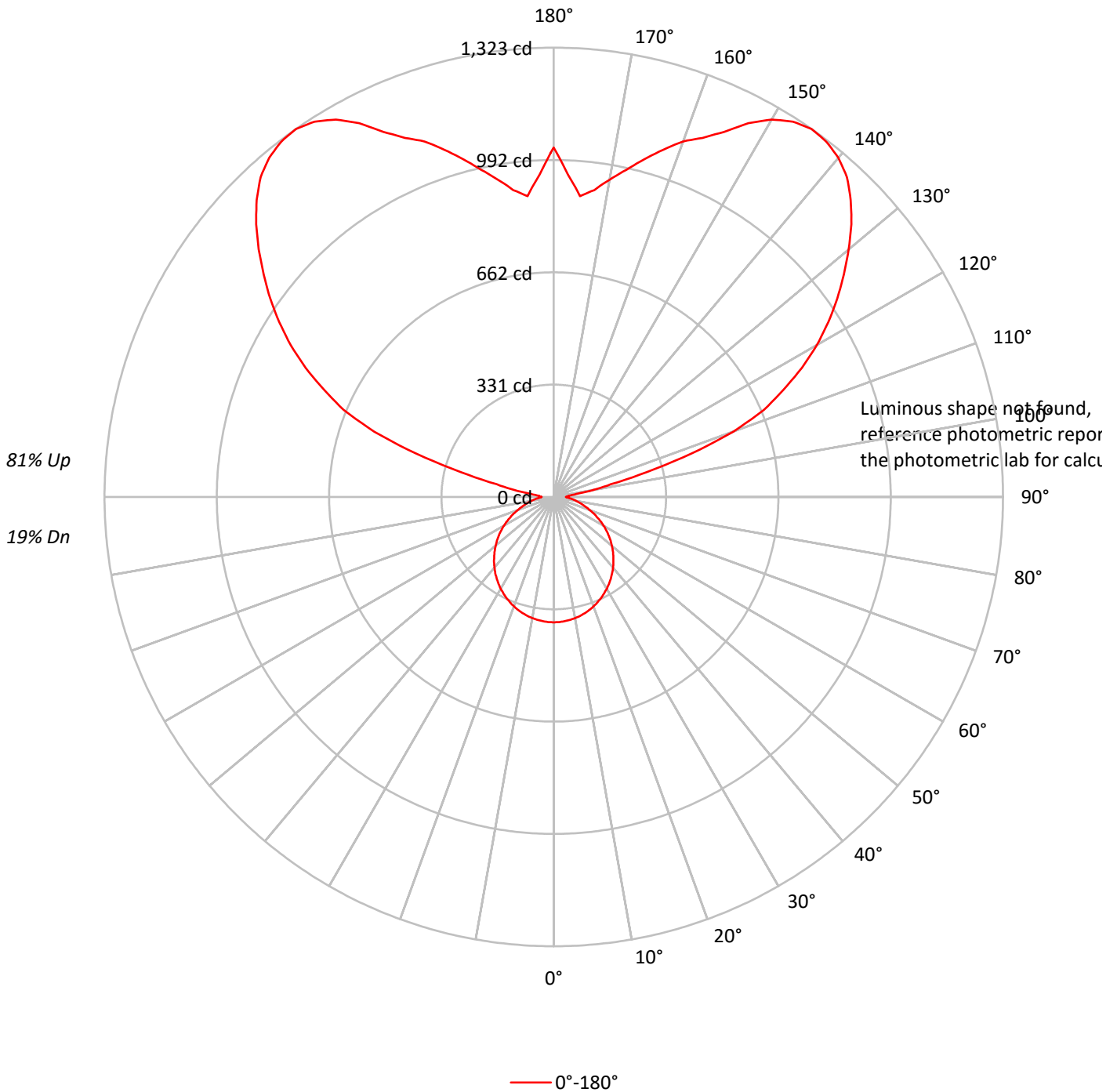
Summary

Lumens per Lamp: 7200 (1 lamp)
Luminaire Lumens: 5865.5 lumens
Efficiency: 81.5%
Efficacy: 53.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: (L: 0' x W: -0.38' x H: 0.44'
CIE Type: Semi-Indirect

Input Watts (W): 110
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



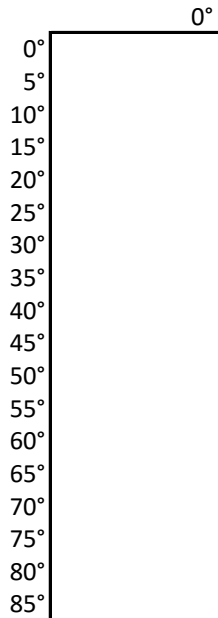


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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	81	81	81	81	72	72	72	72	54	54	54		38	38	38		23	23	23	16
1	74	70	67	64	65	62	60	57	47	45	43		33	32	31		20	19	19	13
2	67	61	56	52	59	54	50	47	41	38	36		28	27	25		17	16	15	10
3	61	54	48	43	54	47	43	39	36	33	30		25	23	21		15	14	13	9
4	56	47	41	36	49	42	37	33	32	28	25		22	20	18		13	12	11	7
5	51	42	36	31	45	37	32	28	28	24	22		20	17	15		12	11	10	6
6	47	37	31	27	41	33	28	24	25	21	19		18	15	13		11	9	8	6
7	43	34	27	23	38	30	25	21	23	19	16		16	14	12		10	8	7	5
8	40	30	24	20	35	27	22	18	21	17	14		15	12	10		9	8	7	4
9	37	27	22	18	33	24	19	16	19	15	13		13	11	9		8	7	6	4
10	34	25	19	16	30	22	17	14	17	14	11		12	10	8		8	6	5	4

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	34.9	0.6	0.5
10°-20°	99.9	1.7	1.4
20°-30°	151.5	2.6	2.1
30°-40°	183.3	3.1	2.5
40°-50°	191.5	3.3	2.7
50°-60°	176.2	3.0	2.4
60°-70°	139.6	2.4	1.9
70°-80°	93.9	1.6	1.3
80°-90°	54.0	0.9	0.7
90°-100°	62.9	1.1	0.9
100°-110°	321.0	5.5	4.5
110°-120°	734.3	12.5	10.2
120°-130°	910.5	15.5	12.6
130°-140°	951.1	16.2	13.2
140°-150°	824.1	14.0	11.4
150°-160°	554.3	9.4	7.7
160°-170°	294.4	5.0	4.1
170°-180°	88.1	1.5	1.2
0°-30°	286.3	4.9	4.0
0°-40°	469.7	8.0	6.5
0°-60°	837.4	14.3	11.6
0°-90°	1124.9	19.2	15.6
90°-120°	1118.2	19.1	15.5
90°-150°	3803.8	64.9	52.8
90°-180°	4741.0	80.8	65.8
0°-180°	5865.5	100.0	81.5

CANDELA DISTRIBUTION:

	0°	Flux
0°	369	
5°	367	35
15°	354	100
25°	329	151
35°	293	183
45°	248	192
55°	197	176
65°	141	140
75°	88	94
85°	49	43
90°	36	21
95°	45	52
105°	283	321
115°	745	734
125°	1019	910
135°	1237	951
145°	1323	824
155°	1186	554
165°	1030	294
175°	889	88
180°	1029	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	369.2
2.5°	368.7
5°	367.3
7.5°	365.0
10°	362.3
12.5°	358.6
15°	354.1
17.5°	348.9
20°	342.9
22.5°	336.0
25°	328.7
27.5°	320.6
30°	312.0
32.5°	302.8
35°	293.1
37.5°	282.7
40°	271.7
42.5°	260.2
45°	248.2
47.5°	236.0
50°	223.3
52.5°	210.5
55°	197.2
57.5°	183.6
60°	169.6
62.5°	155.3
65°	140.9
67.5°	126.4
70°	112.9
72.5°	100.3
75°	88.4
77.5°	77.3
80°	66.9
82.5°	57.4
85°	48.6
87.5°	40.7
90°	35.8
92.5°	41.9
95°	45.0
97.5°	66.9
100°	118.3
102.5°	172.3
105°	283.2
107.5°	424.9
110°	562.2



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	669.8
115°	745.0
117.5°	824.1
120°	894.3
122.5°	958.6
125°	1019.3
127.5°	1076.5
130°	1134.0
132.5°	1188.5
135°	1236.9
137.5°	1277.7
140°	1303.9
142.5°	1318.6
145°	1323.0
147.5°	1310.5
150°	1283.1
152.5°	1240.7
155°	1185.5
157.5°	1144.3
160°	1114.2
162.5°	1071.8
165°	1029.6
167.5°	986.7
170°	949.1
172.5°	911.4
175°	889.3
177.5°	950.3
180°	1029.2

(END OF REPORT)