

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: 19436

Luminaire Tested: **447-CF4/26**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 19436
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 447-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: -

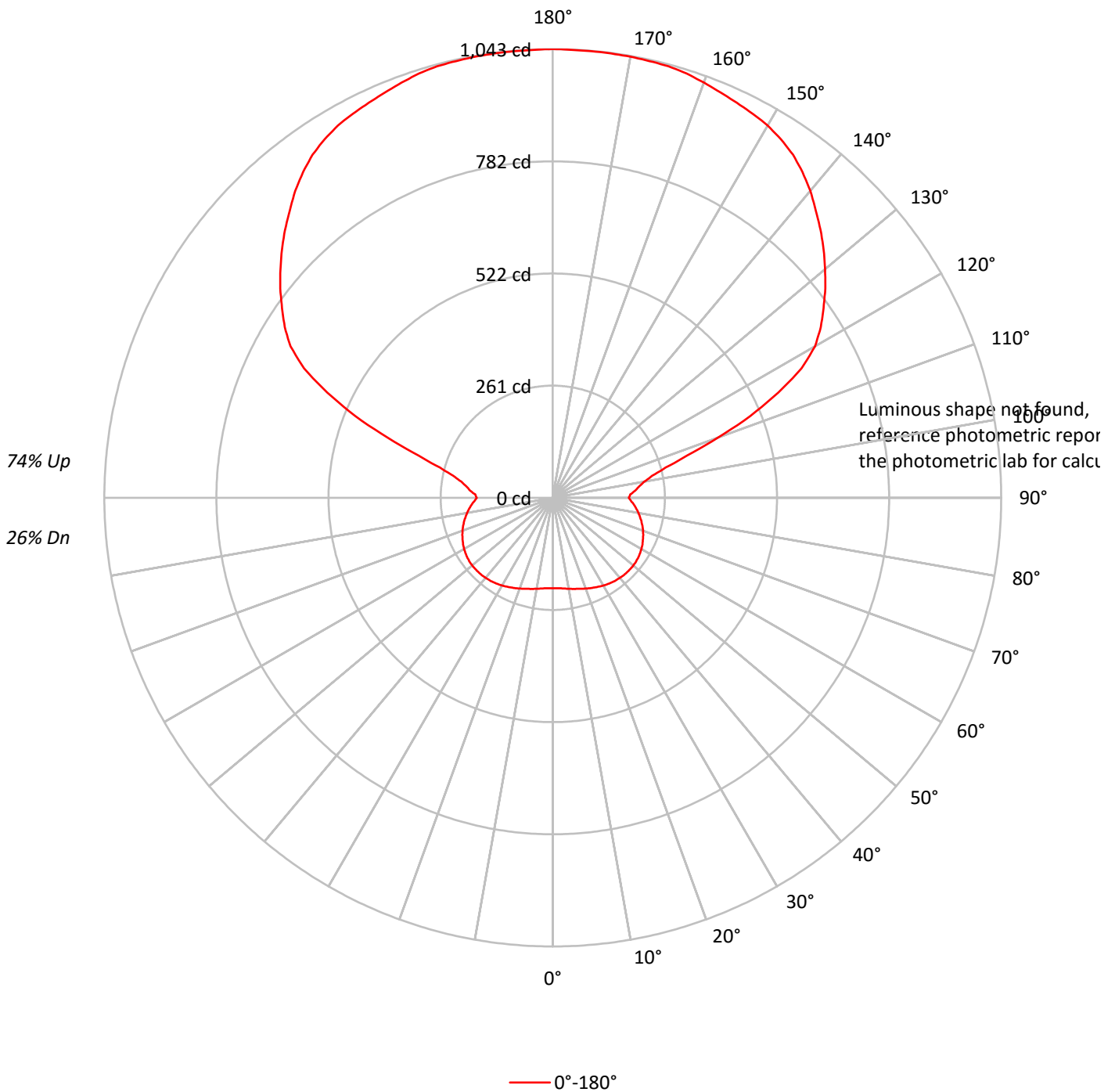
Summary

Lumens per Lamp: 7200 (1 lamp)
Luminaire Lumens: 5325.0 lumens
Efficiency: 74.0%
Efficacy: 48.0 lumens/watt
Spacing Criteria (0/90/45): 1.73 / 1.73 / 1.88
Luminous Opening: (L: 0' x W: -0.08' x H: 1.25'
CIE Type: Semi-Indirect

Input Watts (W): 111
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	75	75	75	75	67	67	67	67	52	52	52	38	38	38	26	26	26	20
1	67	63	60	57	59	56	53	51	43	41	39	31	30	29	20	19	19	14
2	60	54	49	45	53	48	44	41	37	34	32	27	25	23	17	16	15	10
3	55	47	42	37	48	42	37	33	32	29	26	23	21	19	15	13	12	8
4	50	41	35	31	44	37	32	28	28	24	21	20	18	16	13	11	10	6
5	45	37	30	26	40	33	27	23	25	21	18	18	15	13	11	10	8	5
6	42	33	26	22	37	29	24	20	22	18	15	16	13	11	10	8	7	4
7	38	29	23	19	34	26	21	17	20	16	13	14	12	10	9	7	6	4
8	35	26	21	17	31	23	18	15	18	14	12	13	10	8	8	7	5	3
9	33	24	18	15	29	21	16	13	16	13	10	12	9	7	8	6	5	3
10	31	22	16	13	27	19	15	12	15	11	9	11	8	7	7	5	4	3

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	20.3	0.4	0.3
10°-20°	62.3	1.2	0.9
20°-30°	106.6	2.0	1.5
30°-40°	150.6	2.8	2.1
40°-50°	189.2	3.6	2.6
50°-60°	217.1	4.1	3.0
60°-70°	229.4	4.3	3.2
70°-80°	225.5	4.2	3.1
80°-90°	206.8	3.9	2.9
90°-100°	210.7	4.0	2.9
100°-110°	302.8	5.7	4.2
110°-120°	564.9	10.6	7.8
120°-130°	687.9	12.9	9.6
130°-140°	680.4	12.8	9.4
140°-150°	608.7	11.4	8.5
150°-160°	468.6	8.8	6.5
160°-170°	293.7	5.5	4.1
170°-180°	99.5	1.9	1.4
0°-30°	189.2	3.6	2.6
0°-40°	339.8	6.4	4.7
0°-60°	746.0	14.0	10.4
0°-90°	1407.8	26.4	19.6
90°-120°	1078.4	20.3	15.0
90°-150°	3055.4	57.4	42.4
90°-180°	3917.0	73.6	54.4
0°-180°	5325.0	100.0	74.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	210	
5°	211	20
15°	219	62
25°	230	107
35°	240	151
45°	244	189
55°	242	217
65°	231	229
75°	214	226
85°	190	158
90°	177	98
95°	193	162
105°	272	303
115°	579	565
125°	769	688
135°	881	680
145°	974	609
155°	1013	469
165°	1039	294
175°	1042	99
180°	1043	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	210.5
2.5°	210.3
5°	211.1
7.5°	212.7
10°	214.7
12.5°	216.9
15°	219.1
17.5°	221.6
20°	224.5
22.5°	227.3
25°	229.9
27.5°	232.7
30°	235.4
32.5°	237.8
35°	239.8
37.5°	241.7
40°	242.9
42.5°	244.0
45°	244.5
47.5°	244.7
50°	244.6
52.5°	243.8
55°	242.5
57.5°	240.5
60°	238.1
62.5°	235.1
65°	231.3
67.5°	227.6
70°	223.4
72.5°	218.7
75°	213.5
77.5°	208.0
80°	202.4
82.5°	196.2
85°	189.7
87.5°	182.9
90°	176.9
92.5°	180.6
95°	192.9
97.5°	202.4
100°	216.4
102.5°	236.8
105°	271.8
107.5°	327.4
110°	407.3



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	497.5
115°	578.6
117.5°	652.2
120°	704.1
122.5°	739.1
125°	768.6
127.5°	798.7
130°	826.7
132.5°	854.5
135°	880.7
137.5°	905.3
140°	931.6
142.5°	954.1
145°	973.8
147.5°	987.9
150°	999.5
152.5°	1006.7
155°	1013.0
157.5°	1019.8
160°	1027.2
162.5°	1034.3
165°	1038.6
167.5°	1039.9
170°	1041.3
172.5°	1041.8
175°	1042.3
177.5°	1042.2
180°	1043.3

(END OF REPORT)