

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: 18161

Luminaire Tested: **482-30-D-CF4/40**

Issue Date: 3/3/2020

**Test Information**

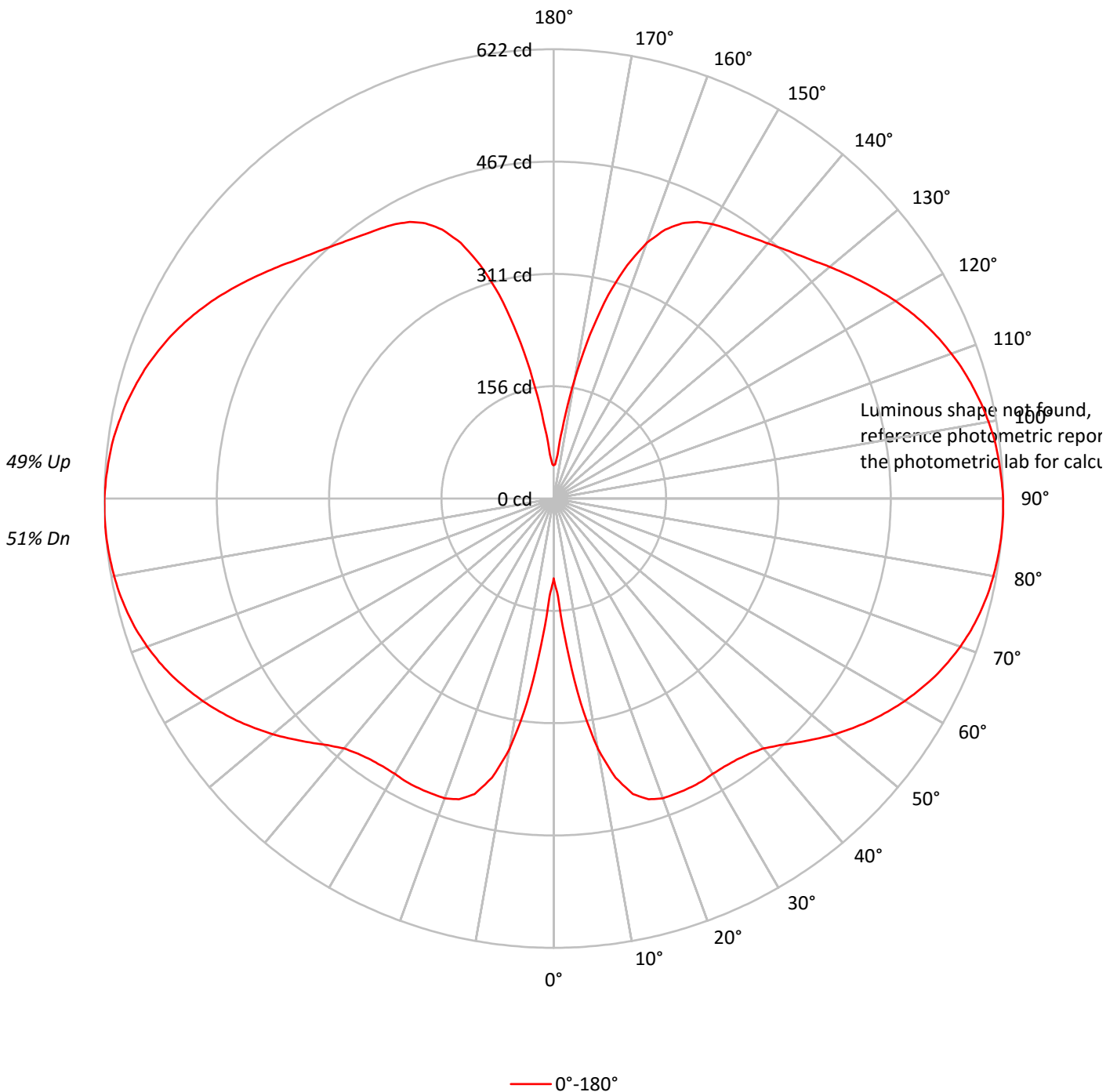
Test Method: LM-66-11  
Report Number: 18161  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: SHAPER  
Catalog Number: 482-30-D-CF4/40  
Description: PENDANT LUMINAIRE WITH PAR LAMP OFF WITH WHITE BALLAST  
HOUSING AND WHITE PLASTIC LENS  
Light Source: 4 GE 40W CPFL LAMPS & 1 150W INC  
  
F40BX/SPX35. LUMEN RATING = 12600 LMS.  
  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 12600 (1 lamp)  
Luminaire Lumens: 6658.7 lumens  
Efficiency: 52.8%  
Efficacy: 44.7 lumens/watt  
Spacing Criteria (0/90/45): 3.88 / 3.88 / 3.68  
Luminous Opening: (L: 0' x W: -1' x H: 2.5'  
CIE Type: General Diffuse  
  
Input Watts (W): 149  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	57	57	57	57	52	52	52	52	44	44	44	37	37	37	30	30	30	27
1	49	46	43	40	45	42	39	37	35	33	31	28	27	25	22	21	20	17
2	44	38	34	30	40	35	31	28	29	26	23	23	21	19	18	16	15	12
3	39	33	28	24	36	30	26	22	25	21	19	20	17	15	15	13	12	9
4	36	29	24	20	32	26	22	18	22	18	15	17	14	12	13	11	9	7
5	32	25	20	16	29	23	19	15	19	15	13	15	12	10	12	9	8	6
6	30	22	17	14	27	20	16	13	17	13	11	14	11	9	10	8	7	5
7	27	20	15	12	25	18	14	11	15	12	9	12	9	7	9	7	6	4
8	25	18	14	10	23	17	12	10	14	10	8	11	8	6	9	6	5	4
9	23	16	12	9	21	15	11	8	13	9	7	10	8	6	8	6	4	3
10	22	15	11	8	20	14	10	7	11	8	6	9	7	5	7	5	4	3

**AVERAGE LUMINANCE (cd/sqm):**





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	24.4	0.4	0.2
10°-20°	118.4	1.8	0.9
20°-30°	204.5	3.1	1.6
30°-40°	278.4	4.2	2.2
40°-50°	370.9	5.6	2.9
50°-60°	480.6	7.2	3.8
60°-70°	577.4	8.7	4.6
70°-80°	645.6	9.7	5.1
80°-90°	677.7	10.2	5.4
90°-100°	674.1	10.1	5.3
100°-110°	634.6	9.5	5.0
110°-120°	563.5	8.5	4.5
120°-130°	469.2	7.0	3.7
130°-140°	370.9	5.6	2.9
140°-150°	282.4	4.2	2.2
150°-160°	193.2	2.9	1.5
160°-170°	83.5	1.3	0.7
170°-180°	9.5	0.1	0.1
0°-30°	347.3	5.2	2.8
0°-40°	625.8	9.4	5.0
0°-60°	1477.3	22.2	11.7
0°-90°	3377.9	50.7	26.8
90°-120°	1872.1	28.1	14.9
90°-150°	2994.7	45.0	23.8
90°-180°	3281.0	49.3	26.0
0°-180°	6658.7	100.0	52.8

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	110	
5°	206	24
15°	424	118
25°	442	205
35°	441	278
45°	478	371
55°	536	481
65°	582	577
75°	611	646
85°	622	507
90°	622	341
95°	618	504
105°	600	635
115°	568	563
125°	523	469
135°	478	371
145°	448	282
155°	420	193
165°	292	84
175°	61	9
180°	46	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	110.3
2.5°	134.9
5°	205.5
7.5°	285.4
10°	352.1
12.5°	396.0
15°	423.5
17.5°	436.6
20°	441.6
22.5°	442.2
25°	442.4
27.5°	442.1
30°	440.1
32.5°	439.8
35°	441.4
37.5°	445.1
40°	451.5
42.5°	463.0
45°	477.6
47.5°	492.4
50°	507.7
52.5°	521.9
55°	535.9
57.5°	548.6
60°	560.9
62.5°	572.0
65°	582.4
67.5°	591.3
70°	599.1
72.5°	605.8
75°	611.0
77.5°	615.2
80°	618.1
82.5°	620.2
85°	621.7
87.5°	622.5
90°	622.0
92.5°	620.5
95°	618.3
97.5°	615.7
100°	611.3
102.5°	606.2
105°	600.3
107.5°	593.9
110°	586.0



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	577.6
115°	568.2
117.5°	557.6
120°	546.6
122.5°	534.6
125°	522.7
127.5°	510.3
130°	498.8
132.5°	487.3
135°	477.5
137.5°	468.9
140°	461.0
142.5°	454.4
145°	448.4
147.5°	443.8
150°	438.6
152.5°	431.7
155°	420.4
157.5°	403.0
160°	376.4
162.5°	339.0
165°	292.0
167.5°	232.6
170°	168.0
172.5°	106.4
175°	61.3
177.5°	47.4
180°	46.2

(END OF REPORT)