

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: 14259

Luminaire Tested: **417-CF1/42**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 14259
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 417-CF1/42
Description: FLUORESCENT INDOOR PENDANT LUMINAIRE WITH WHITE ACRYLIC BOWL AND NO LENS
Light Source: ONE PHILIPS 42 WATT CPFL LAMP

CF42DT/E/IN/841. LUMEN RATING = 3200 LMS.

Ballast/Driver: -

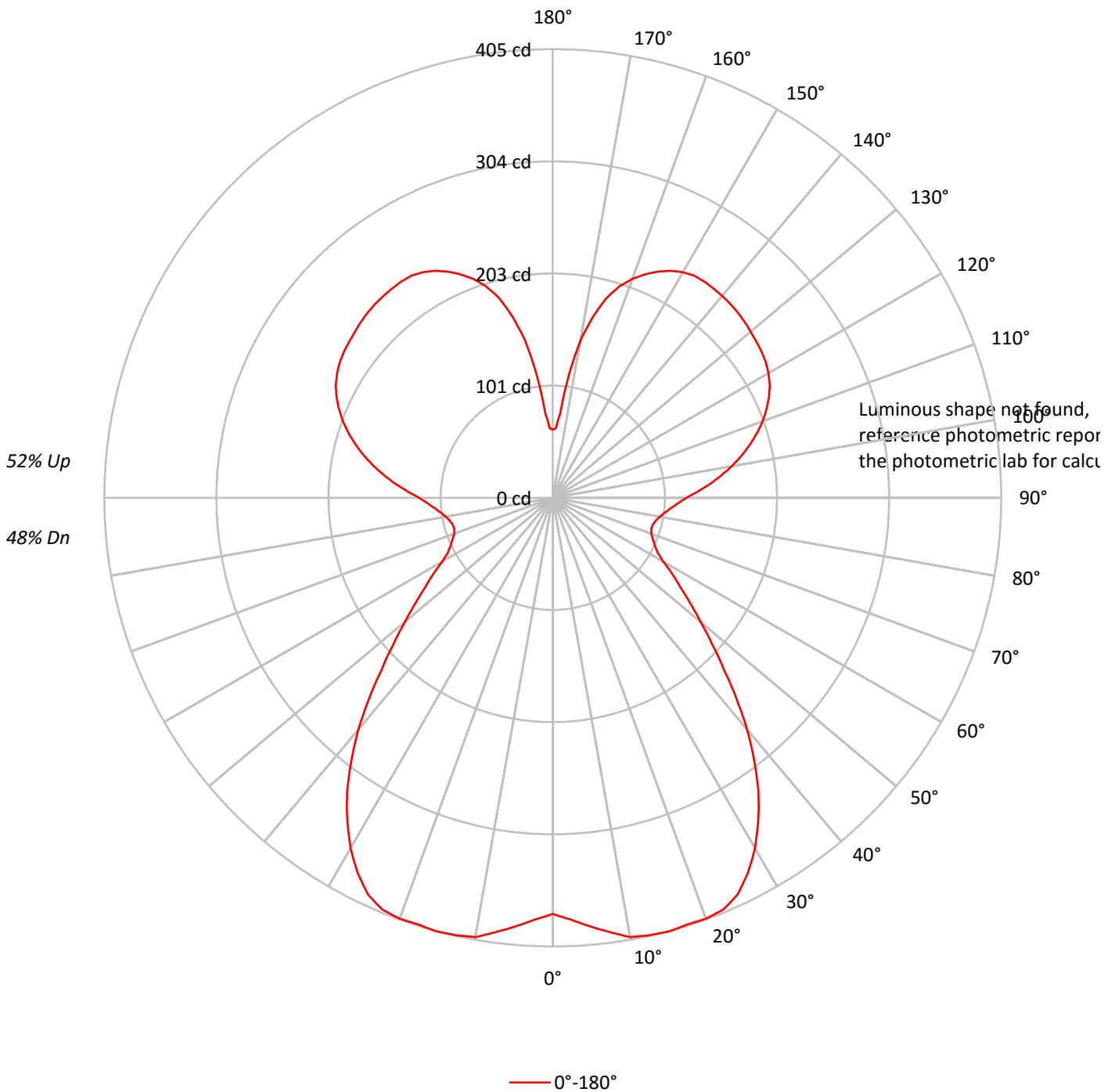
Summary

Lumens per Lamp: 3200 (1 lamp)
Luminaire Lumens: 2417.0 lumens
Efficiency: 75.5%
Efficacy: 51.4 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.32
Luminous Opening: (L: 0 ' x W: -0.5 ' x H: 0 '
CIE Type: General Diffuse

Input Watts (W): 47
Input Voltage (V): NR
Input Current (Ain): 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



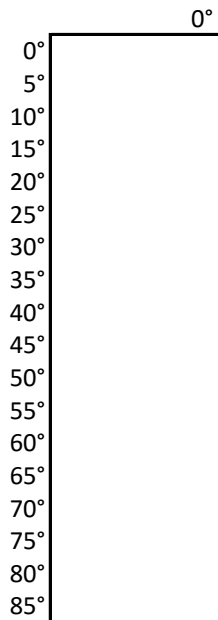


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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	80	80	80	80	74	74	74	74	62	62	62	51	51	51	41	41	41	36
1	72	69	65	62	66	63	60	57	53	50	48	43	41	40	34	33	32	28
2	66	60	55	51	60	55	51	47	46	43	40	38	35	33	30	28	27	23
3	60	53	47	42	55	48	43	39	41	37	34	33	30	28	27	25	23	20
4	55	47	40	36	50	43	38	33	36	32	29	30	27	24	24	22	20	17
5	51	42	35	31	46	38	33	29	32	28	25	27	24	21	22	19	17	15
6	47	37	31	27	43	35	29	25	29	25	22	24	21	19	20	17	15	13
7	43	34	28	23	40	31	26	22	27	22	19	22	19	16	18	16	14	12
8	40	31	25	21	37	28	23	20	24	20	17	20	17	15	17	14	12	11
9	37	28	22	19	34	26	21	17	22	18	15	19	16	13	15	13	11	10
10	35	26	20	17	32	24	19	16	21	17	14	17	14	12	14	12	10	9

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	37.5	1.6	1.2
10°-20°	114.6	4.7	3.6
20°-30°	180.4	7.5	5.6
30°-40°	201.0	8.3	6.3
40°-50°	169.7	7.0	5.3
50°-60°	127.2	5.3	4.0
60°-70°	101.9	4.2	3.2
70°-80°	100.1	4.1	3.1
80°-90°	117.7	4.9	3.7
90°-100°	155.1	6.4	4.8
100°-110°	194.0	8.0	6.1
110°-120°	212.9	8.8	6.7
120°-130°	206.0	8.5	6.4
130°-140°	182.8	7.6	5.7
140°-150°	149.3	6.2	4.7
150°-160°	104.2	4.3	3.3
160°-170°	52.7	2.2	1.6
170°-180°	9.8	0.4	0.3
0°-30°	332.5	13.8	10.4
0°-40°	533.5	22.1	16.7
0°-60°	830.4	34.4	26.0
0°-90°	1150.1	47.6	35.9
90°-120°	562.1	23.3	17.6
90°-150°	1100.2	45.5	34.4
90°-180°	1267.0	52.4	39.6
0°-180°	2417.0	100.0	75.5

CANDELA DISTRIBUTION:

	0°	Flux
0°	376	
5°	388	38
15°	405	115
25°	395	180
35°	324	201
45°	218	170
55°	141	127
65°	102	102
75°	94	100
85°	107	86
90°	121	67
95°	142	121
105°	184	194
115°	215	213
125°	230	206
135°	236	183
145°	238	149
155°	225	104
165°	186	53
175°	76	10
180°	61	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	375.7
2.5°	381.2
5°	388.5
7.5°	395.4
10°	402.7
12.5°	404.4
15°	405.2
17.5°	403.9
20°	404.2
22.5°	402.3
25°	395.0
27.5°	381.6
30°	365.2
32.5°	345.5
35°	323.8
37.5°	298.9
40°	273.0
42.5°	245.2
45°	218.0
47.5°	195.0
50°	174.2
52.5°	156.4
55°	140.7
57.5°	127.7
60°	115.2
62.5°	106.6
65°	101.6
67.5°	97.9
70°	94.7
72.5°	93.3
75°	93.5
77.5°	95.3
80°	98.1
82.5°	102.1
85°	107.0
87.5°	113.0
90°	120.6
92.5°	131.1
95°	142.4
97.5°	153.1
100°	164.0
102.5°	174.2
105°	184.1
107.5°	193.1
110°	201.6



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	209.0
115°	215.4
117.5°	220.9
120°	225.0
122.5°	228.0
125°	230.1
127.5°	231.6
130°	233.3
132.5°	235.0
135°	236.4
137.5°	237.3
140°	237.9
142.5°	238.2
145°	238.4
147.5°	237.7
150°	235.1
152.5°	231.0
155°	225.2
157.5°	218.4
160°	210.2
162.5°	200.0
165°	186.4
167.5°	167.1
170°	144.1
172.5°	111.9
175°	76.2
177.5°	62.9
180°	61.4

(END OF REPORT)