

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: 19433B

Luminaire Tested: **434-SH-16-CF2/42**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 19433B
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 434-SH-16-CF2/42
Description: INTERIOR SUSPENDED LUMINAIRE WITH WHITE GLASS GLOBE LENS

Light Source: TWO 42 WATT CPFL LAMPS. LUMEN RATING = 6400 LMS.

Ballast/Driver: -

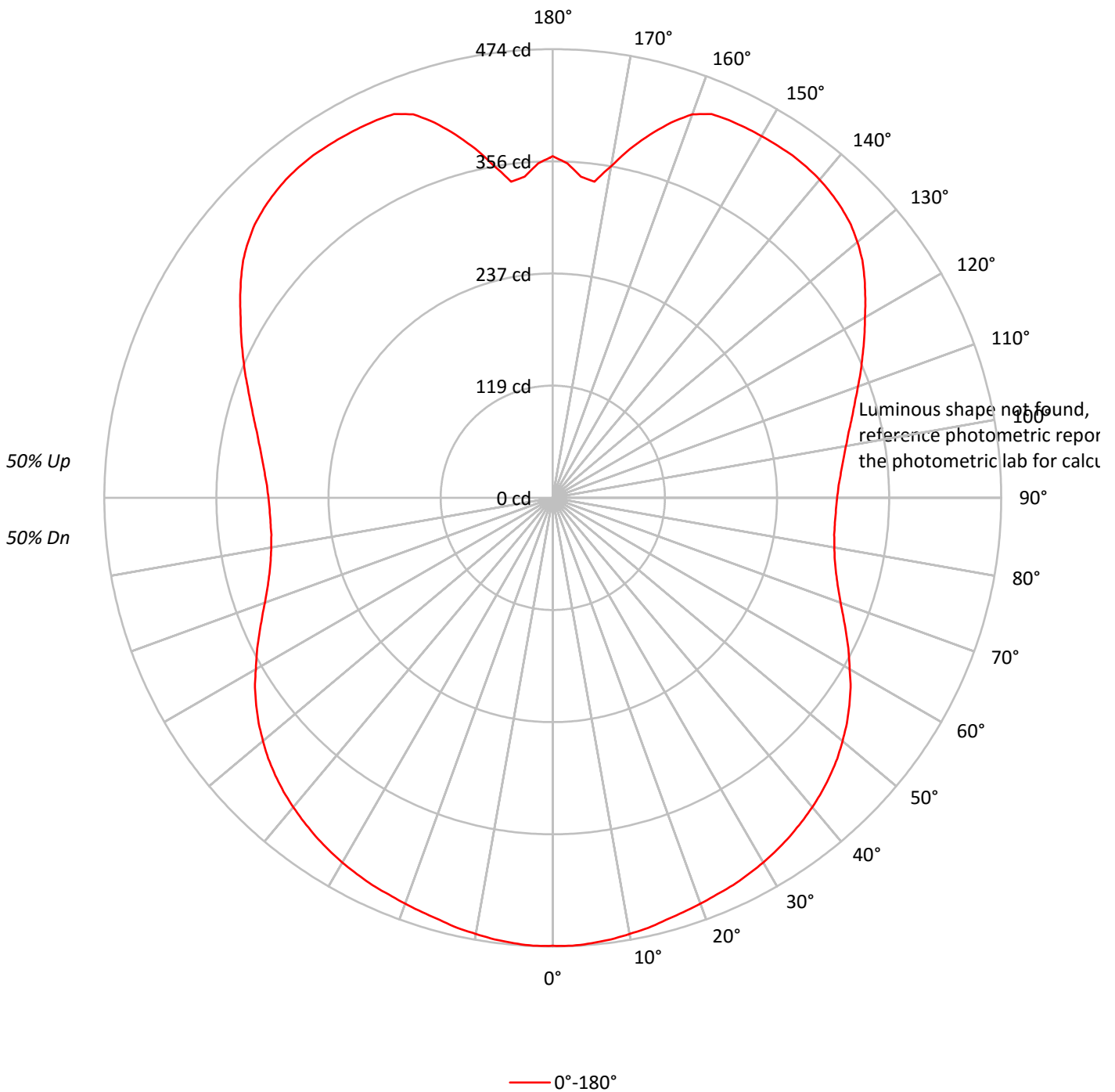
Summary

Lumens per Lamp: 6400 (1 lamp)
Luminaire Lumens: 4677.8 lumens
Efficiency: 73.1%
Efficacy: -
Spacing Criteria (0/90/45): 1.42 / 1.42 / 1.59
Luminous Opening: (L: 0 ' x W: -0.08 ' x H: 0.67 '
CIE Type: General Diffuse

Input Watts (W): 0
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

TEST NUMBER: 19433B
CATALOG NUMBER: 434-SH-16-CF2/42

Luminous Intensity Polar Plot





TEST NUMBER: 19433B

CATALOG NUMBER: 434-SH-16-CF2/42

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	78	78	78	78	72	72	72	72	61	61	61		50	50	50		41	41	41	36
1	69	65	61	58	63	60	56	53	50	47	45		41	39	37		32	31	30	26
2	62	55	50	45	57	51	46	42	42	39	35		34	32	29		27	25	23	20
3	56	48	42	37	51	44	39	34	37	32	29		30	27	24		23	21	19	16
4	51	42	36	31	46	39	33	28	32	28	24		26	23	20		20	18	16	13
5	47	37	31	26	42	34	28	24	28	24	20		23	20	17		18	16	13	11
6	43	33	27	22	39	30	25	20	25	21	17		21	17	14		16	14	12	9
7	39	30	23	19	36	27	22	18	23	18	15		19	15	13		15	12	10	8
8	36	27	21	17	33	25	19	16	21	16	13		17	14	11		14	11	9	7
9	34	24	19	15	31	23	17	14	19	15	12		16	12	10		13	10	8	6
10	32	22	17	13	29	21	16	12	17	13	10		14	11	9		12	9	7	6

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: 19433B

CATALOG NUMBER: 434-SH-16-CF2/42

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	44.9	1.0	0.7
10°-20°	130.8	2.8	2.0
20°-30°	208.6	4.5	3.3
30°-40°	273.9	5.9	4.3
40°-50°	320.5	6.9	5.0
50°-60°	342.6	7.3	5.4
60°-70°	339.9	7.3	5.3
70°-80°	329.0	7.0	5.1
80°-90°	327.4	7.0	5.1
90°-100°	334.2	7.1	5.2
100°-110°	346.7	7.4	5.4
110°-120°	359.0	7.7	5.6
120°-130°	360.1	7.7	5.6
130°-140°	333.8	7.1	5.2
140°-150°	277.0	5.9	4.3
150°-160°	203.3	4.3	3.2
160°-170°	113.3	2.4	1.8
170°-180°	32.9	0.7	0.5
0°-30°	384.3	8.2	6.0
0°-40°	658.2	14.1	10.3
0°-60°	1321.2	28.2	20.6
0°-90°	2317.5	49.5	36.2
90°-120°	1039.9	22.2	16.2
90°-150°	2010.8	43.0	31.4
90°-180°	2360.0	50.5	36.9
0°-180°	4677.8	100.0	73.1

CANDELA DISTRIBUTION:

	0°	Flux
0°	473	
5°	472	45
15°	462	131
25°	451	209
35°	437	274
45°	415	320
55°	383	343
65°	342	340
75°	310	329
85°	299	245
90°	300	165
95°	306	252
105°	327	347
115°	362	359
125°	402	360
135°	432	334
145°	442	277
155°	440	203
165°	397	113
175°	341	33
180°	361	



TEST NUMBER: 19433B

CATALOG NUMBER: 434-SH-16-CF2/42

CANDELA DISTRIBUTION (FULL):

0°	
0°	473.3
2.5°	473.7
5°	472.4
7.5°	470.5
10°	467.9
12.5°	465.4
15°	461.8
17.5°	458.9
20°	456.4
22.5°	453.5
25°	451.4
27.5°	448.2
30°	444.9
32.5°	441.0
35°	436.7
37.5°	431.8
40°	426.6
42.5°	421.1
45°	414.7
47.5°	407.8
50°	399.8
52.5°	391.7
55°	382.6
57.5°	373.3
60°	362.4
62.5°	352.6
65°	342.3
67.5°	332.7
70°	323.7
72.5°	316.1
75°	310.0
77.5°	305.3
80°	302.1
82.5°	300.0
85°	299.4
87.5°	299.5
90°	300.4
92.5°	302.5
95°	305.7
97.5°	309.7
100°	314.6
102.5°	320.4
105°	327.3
107.5°	334.7
110°	343.3



TEST NUMBER: 19433B

CATALOG NUMBER: 434-SH-16-CF2/42

CANDELA DISTRIBUTION (continued):

	0°
112.5°	352.4
115°	361.6
117.5°	371.3
120°	381.0
122.5°	391.7
125°	402.3
127.5°	412.4
130°	420.4
132.5°	427.3
135°	432.1
137.5°	435.9
140°	438.9
142.5°	440.5
145°	441.7
147.5°	441.5
150°	441.3
152.5°	440.9
155°	440.4
157.5°	438.7
160°	431.2
162.5°	415.6
165°	397.3
167.5°	377.6
170°	355.9
172.5°	336.9
175°	340.6
177.5°	353.6
180°	360.9

(END OF REPORT)