

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: 19434A

Luminaire Tested: **434-SP-16-CF2/26**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 19434A
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 434-SP-16-CF2/26
Description: INTERIOR SUSPENDED LUMINAIRE WITH WHITE GLASS GLOBE LENS

Light Source: TWO 26 WATT CPFL LAMPS. LUMEN RATING = 3600 LMS.

Ballast/Driver: -

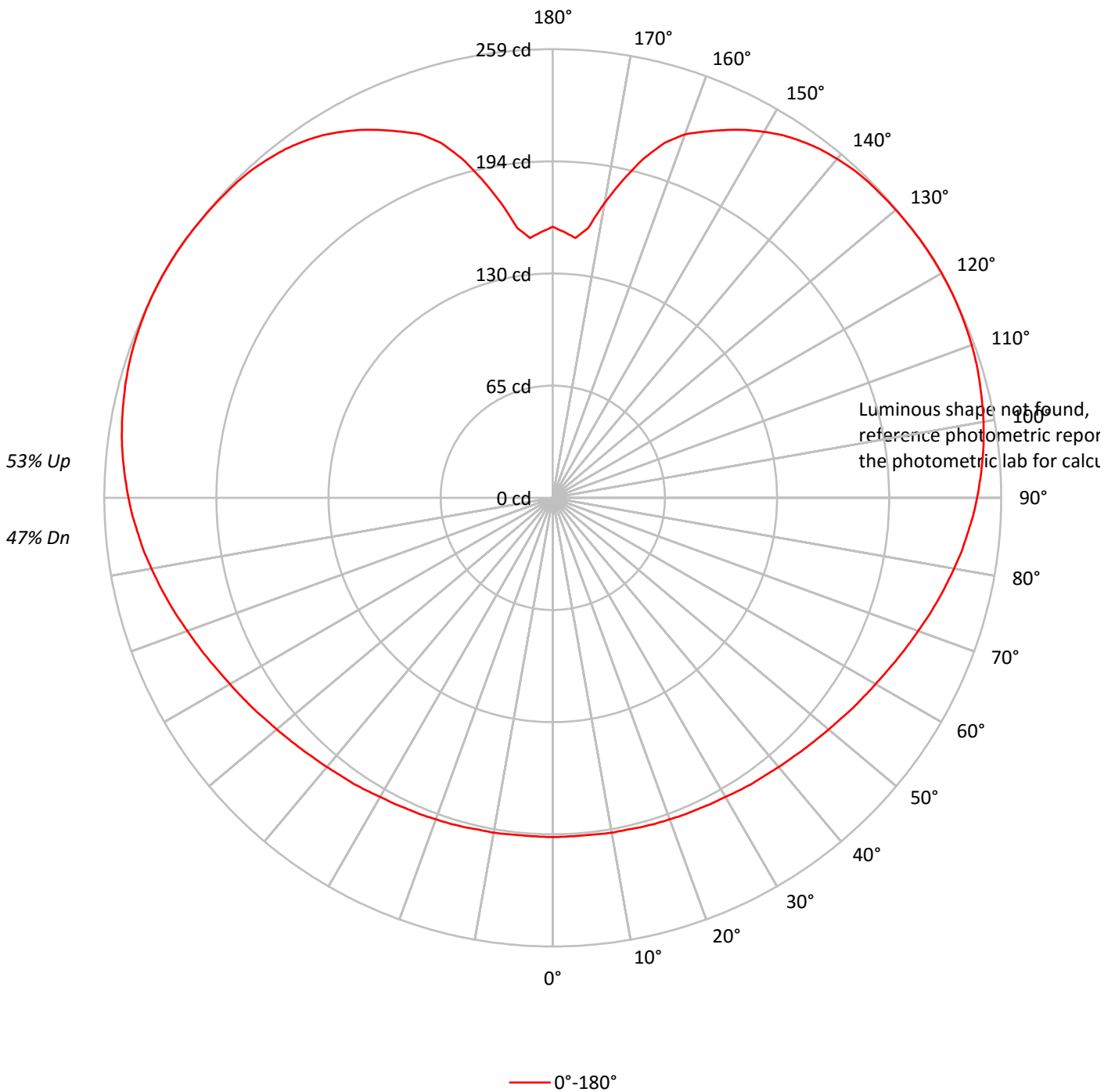
Summary

Lumens per Lamp: 3600 (1 lamp)
Luminaire Lumens: 2934.9 lumens
Efficiency: 81.5%
Efficacy: -
Spacing Criteria (0/90/45): 1.58 / 1.58 / 1.81
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

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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	87	87	87	87	80	80	80	80	66	66	66		54	54	54		43	43	43	38
1	76	71	66	62	69	64	60	57	53	50	47		42	40	38		33	31	29	25
2	67	60	53	48	61	54	49	44	44	40	36		35	32	29		27	24	22	18
3	61	52	44	39	55	47	41	35	38	33	29		30	26	23		23	20	18	14
4	55	45	37	32	50	41	34	29	33	28	24		26	22	19		20	17	14	11
5	50	40	32	27	46	36	29	24	30	24	20		23	19	16		18	15	12	9
6	46	35	28	23	42	32	26	21	26	21	17		21	17	14		16	13	10	8
7	43	32	25	20	39	29	23	18	24	19	15		19	15	12		14	11	9	7
8	39	29	22	17	36	26	20	16	21	17	13		17	13	10		13	10	8	6
9	37	26	19	15	33	24	18	14	20	15	11		16	12	9		12	9	7	5
10	34	24	17	13	31	22	16	12	18	13	10		14	11	8		11	8	6	4

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	18.7	0.6	0.5
10°-20°	55.8	1.9	1.6
20°-30°	91.9	3.1	2.6
30°-40°	126.4	4.3	3.5
40°-50°	159.0	5.4	4.4
50°-60°	189.8	6.5	5.3
60°-70°	218.2	7.4	6.1
70°-80°	243.4	8.3	6.8
80°-90°	262.3	8.9	7.3
90°-100°	271.7	9.3	7.5
100°-110°	270.0	9.2	7.5
110°-120°	256.7	8.7	7.1
120°-130°	232.5	7.9	6.5
130°-140°	199.5	6.8	5.5
140°-150°	157.6	5.4	4.4
150°-160°	108.6	3.7	3.0
160°-170°	57.7	2.0	1.6
170°-180°	15.1	0.5	0.4
0°-30°	166.4	5.7	4.6
0°-40°	292.7	10.0	8.1
0°-60°	641.6	21.9	17.8
0°-90°	1365.4	46.5	37.9
90°-120°	798.4	27.2	22.2
90°-150°	1388.0	47.3	38.6
90°-180°	1569.0	53.5	43.6
0°-180°	2934.9	100.0	81.5

CANDELA DISTRIBUTION:

	0°	Flux
0°	196	
5°	196	19
15°	197	56
25°	198	92
35°	201	126
45°	205	159
55°	212	190
65°	220	218
75°	230	243
85°	240	195
90°	245	134
95°	249	204
105°	255	270
115°	259	257
125°	259	233
135°	258	199
145°	251	158
155°	234	109
165°	203	58
175°	150	15
180°	156	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	195.9
2.5°	195.7
5°	195.7
7.5°	195.9
10°	196.3
12.5°	196.3
15°	196.8
17.5°	197.2
20°	197.5
22.5°	198.0
25°	198.3
27.5°	198.9
30°	199.3
32.5°	200.3
35°	201.2
37.5°	201.8
40°	202.9
42.5°	203.9
45°	205.2
47.5°	206.5
50°	208.0
52.5°	209.6
55°	211.5
57.5°	213.3
60°	215.2
62.5°	217.3
65°	219.7
67.5°	222.1
70°	224.6
72.5°	227.4
75°	230.0
77.5°	232.7
80°	235.3
82.5°	238.1
85°	240.3
87.5°	242.9
90°	245.1
92.5°	247.1
95°	249.1
97.5°	251.0
100°	252.6
102.5°	254.0
105°	255.4
107.5°	256.6
110°	257.5



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	258.2
115°	258.8
117.5°	259.2
120°	259.4
122.5°	259.4
125°	259.3
127.5°	258.9
130°	258.6
132.5°	258.2
135°	257.8
137.5°	257.0
140°	255.4
142.5°	253.7
145°	251.1
147.5°	248.1
150°	244.0
152.5°	239.5
155°	234.3
157.5°	228.8
160°	223.3
162.5°	214.8
165°	202.7
167.5°	188.1
170°	172.9
172.5°	157.1
175°	150.5
177.5°	153.5
180°	156.4

(END OF REPORT)