

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: 19433A

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 19433A
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 434-SH-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: -

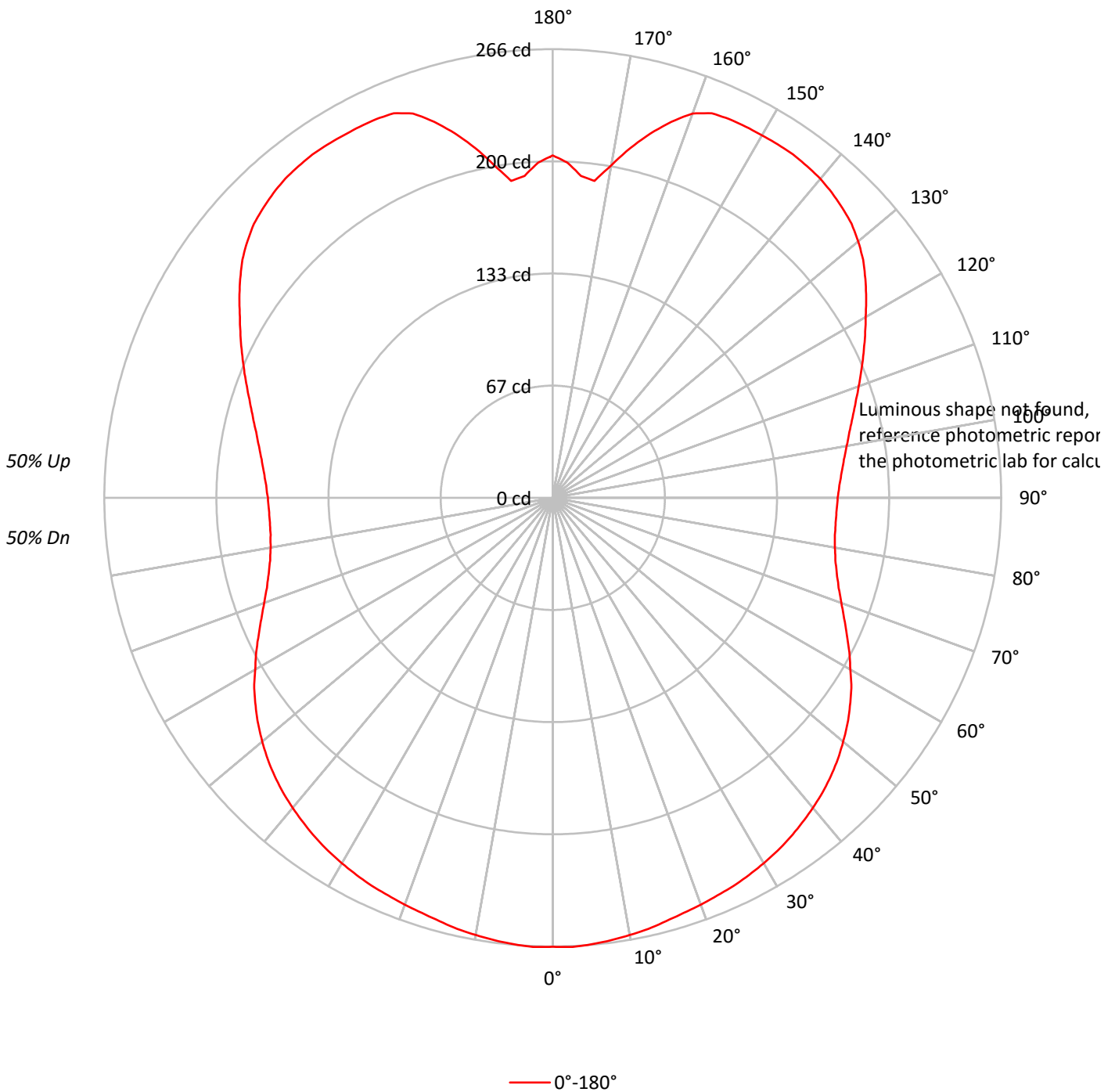
Summary

Lumens per Lamp: 3600 (1 lamp)
Luminaire Lumens: 2631.3 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

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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	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):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	25.3	1.0	0.7
10°-20°	73.6	2.8	2.0
20°-30°	117.3	4.5	3.3
30°-40°	154.1	5.9	4.3
40°-50°	180.3	6.9	5.0
50°-60°	192.7	7.3	5.4
60°-70°	191.2	7.3	5.3
70°-80°	185.1	7.0	5.1
80°-90°	184.2	7.0	5.1
90°-100°	188.0	7.1	5.2
100°-110°	195.0	7.4	5.4
110°-120°	201.9	7.7	5.6
120°-130°	202.6	7.7	5.6
130°-140°	187.8	7.1	5.2
140°-150°	155.8	5.9	4.3
150°-160°	114.4	4.3	3.2
160°-170°	63.8	2.4	1.8
170°-180°	18.5	0.7	0.5
0°-30°	216.2	8.2	6.0
0°-40°	370.2	14.1	10.3
0°-60°	743.2	28.2	20.6
0°-90°	1303.6	49.5	36.2
90°-120°	584.9	22.2	16.2
90°-150°	1131.1	43.0	31.4
90°-180°	1328.0	50.5	36.9
0°-180°	2631.3	100.0	73.1

CANDELA DISTRIBUTION:

	0°	Flux
0°	266	
5°	266	25
15°	260	74
25°	254	117
35°	246	154
45°	233	180
55°	215	193
65°	192	191
75°	174	185
85°	168	138
90°	169	93
95°	172	142
105°	184	195
115°	203	202
125°	226	203
135°	243	188
145°	248	156
155°	248	114
165°	224	64
175°	192	19
180°	203	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	266.2
2.5°	266.5
5°	265.7
7.5°	264.6
10°	263.2
12.5°	261.8
15°	259.8
17.5°	258.1
20°	256.7
22.5°	255.1
25°	253.9
27.5°	252.1
30°	250.2
32.5°	248.1
35°	245.7
37.5°	242.9
40°	240.0
42.5°	236.9
45°	233.3
47.5°	229.4
50°	224.9
52.5°	220.3
55°	215.2
57.5°	210.0
60°	203.8
62.5°	198.3
65°	192.5
67.5°	187.1
70°	182.1
72.5°	177.8
75°	174.4
77.5°	171.7
80°	169.9
82.5°	168.8
85°	168.4
87.5°	168.5
90°	169.0
92.5°	170.2
95°	171.9
97.5°	174.2
100°	177.0
102.5°	180.2
105°	184.1
107.5°	188.3
110°	193.1



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	198.2
115°	203.4
117.5°	208.8
120°	214.3
122.5°	220.4
125°	226.3
127.5°	232.0
130°	236.5
132.5°	240.4
135°	243.0
137.5°	245.2
140°	246.9
142.5°	247.8
145°	248.5
147.5°	248.4
150°	248.2
152.5°	248.0
155°	247.7
157.5°	246.8
160°	242.5
162.5°	233.8
165°	223.5
167.5°	212.4
170°	200.2
172.5°	189.5
175°	191.6
177.5°	198.9
180°	203.0

(END OF REPORT)