

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: 19432A

Luminaire Tested: **434-SP-16-CF1/26**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 19432A
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 434-SP-16-CF1/26
Description: INTERIOR SUSPENDED LUMINAIRE WITH WHITE GLASS GLOBE LENS

Light Source: ONE 26 WATT CPFL LAMP. LUMEN RATING = 1800 LMS.

Ballast/Driver: -

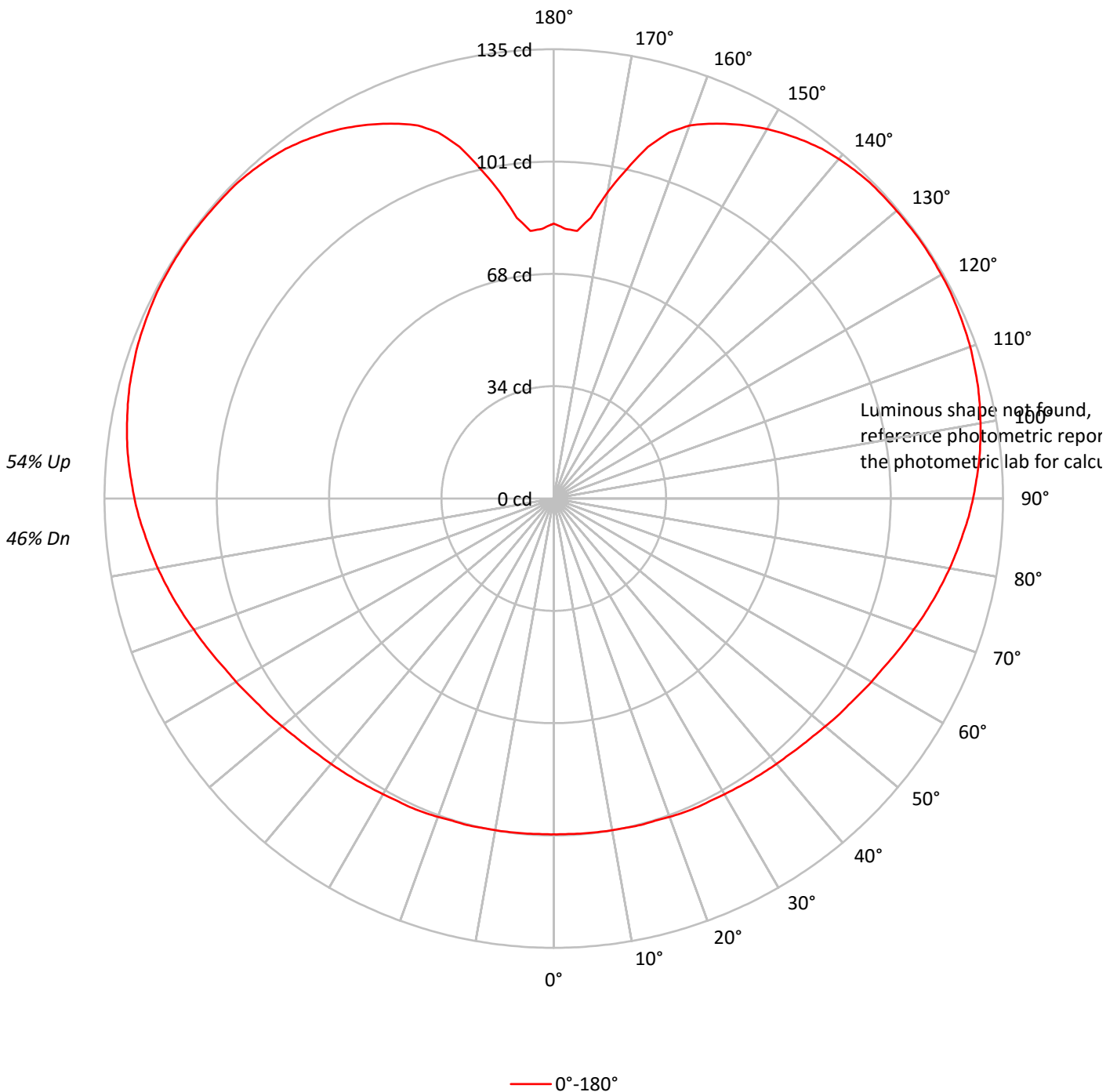
Summary

Lumens per Lamp: 1800 (1 lamp)
Luminaire Lumens: 1516.5 lumens
Efficiency: 84.2%
Efficacy: -
Spacing Criteria (0/90/45): 1.57 / 1.57 / 1.8
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	90	90	90	90	82	82	82	82	68	68	68		56	56	56		44	44	44	39
1	78	73	68	64	71	66	62	59	55	51	49		44	41	39		33	32	30	25
2	70	62	55	50	63	56	50	46	46	41	38		36	33	30		28	25	23	19
3	63	53	46	40	57	48	42	37	39	34	30		31	27	24		23	21	18	14
4	57	46	39	33	52	42	35	30	34	29	25		27	23	20		20	17	15	11
5	52	41	33	28	47	37	30	25	30	25	21		24	20	17		18	15	12	9
6	48	36	29	23	43	33	26	22	27	22	18		22	17	14		16	13	11	8
7	44	33	25	20	40	30	23	19	24	19	15		19	15	12		15	12	9	7
8	41	29	22	18	37	27	21	16	22	17	13		18	14	11		13	10	8	6
9	38	27	20	15	34	25	18	14	20	15	12		16	12	9		12	9	7	5
10	35	24	18	14	32	22	17	13	19	14	11		15	11	8		11	8	6	5

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	9.6	0.6	0.5
10°-20°	28.8	1.9	1.6
20°-30°	47.3	3.1	2.6
30°-40°	64.9	4.3	3.6
40°-50°	81.5	5.4	4.5
50°-60°	97.1	6.4	5.4
60°-70°	111.7	7.4	6.2
70°-80°	124.8	8.2	6.9
80°-90°	134.7	8.9	7.5
90°-100°	139.9	9.2	7.8
100°-110°	139.4	9.2	7.7
110°-120°	133.0	8.8	7.4
120°-130°	120.8	8.0	6.7
130°-140°	103.9	6.8	5.8
140°-150°	82.4	5.4	4.6
150°-160°	57.5	3.8	3.2
160°-170°	31.0	2.0	1.7
170°-180°	8.1	0.5	0.5
0°-30°	85.7	5.7	4.8
0°-40°	150.7	9.9	8.4
0°-60°	329.3	21.7	18.3
0°-90°	700.5	46.2	38.9
90°-120°	412.3	27.2	22.9
90°-150°	719.2	47.4	40.0
90°-180°	816.0	53.8	45.3
0°-180°	1516.5	100.0	84.2

CANDELA DISTRIBUTION:

0°	Flux
0°	101
5°	101
15°	102
25°	102
35°	103
45°	105
55°	108
65°	112
75°	118
85°	123
90°	126
95°	128
105°	132
115°	134
125°	135
135°	134
145°	131
155°	124
165°	109
175°	81
180°	83



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CANDELA DISTRIBUTION (FULL):

0°	
0°	100.9
2.5°	100.9
5°	101.0
7.5°	101.1
10°	101.2
12.5°	101.3
15°	101.5
17.5°	101.5
20°	101.8
22.5°	102.1
25°	102.3
27.5°	102.3
30°	102.6
32.5°	102.9
35°	103.3
37.5°	103.7
40°	104.1
42.5°	104.5
45°	105.1
47.5°	105.7
50°	106.5
52.5°	107.4
55°	108.1
57.5°	109.1
60°	110.2
62.5°	111.2
65°	112.5
67.5°	113.8
70°	115.1
72.5°	116.6
75°	118.0
77.5°	119.4
80°	120.8
82.5°	122.1
85°	123.4
87.5°	124.8
90°	126.0
92.5°	127.1
95°	128.3
97.5°	129.3
100°	130.2
102.5°	131.1
105°	131.9
107.5°	132.5
110°	133.2



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	133.6
115°	134.0
117.5°	134.4
120°	134.5
122.5°	134.6
125°	134.7
127.5°	134.6
130°	134.5
132.5°	134.4
135°	134.3
137.5°	133.8
140°	133.2
142.5°	132.4
145°	131.2
147.5°	129.8
150°	128.2
152.5°	126.3
155°	124.2
157.5°	121.9
160°	119.3
162.5°	115.3
165°	109.4
167.5°	101.4
170°	93.5
172.5°	85.1
175°	80.7
177.5°	81.1
180°	82.6

(END OF REPORT)