

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: 19432B

Luminaire Tested: **434-SP-16-CF1/42**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 19432B
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 434-SP-16-CF1/42
Description: INTERIOR SUSPENDED LUMINAIRE WITH WHITE GLASS GLOBE LENS

Light Source: ONE 42 WATT CPFL LAMP. LUMEN RATING = 3200 LMS.

Ballast/Driver: -

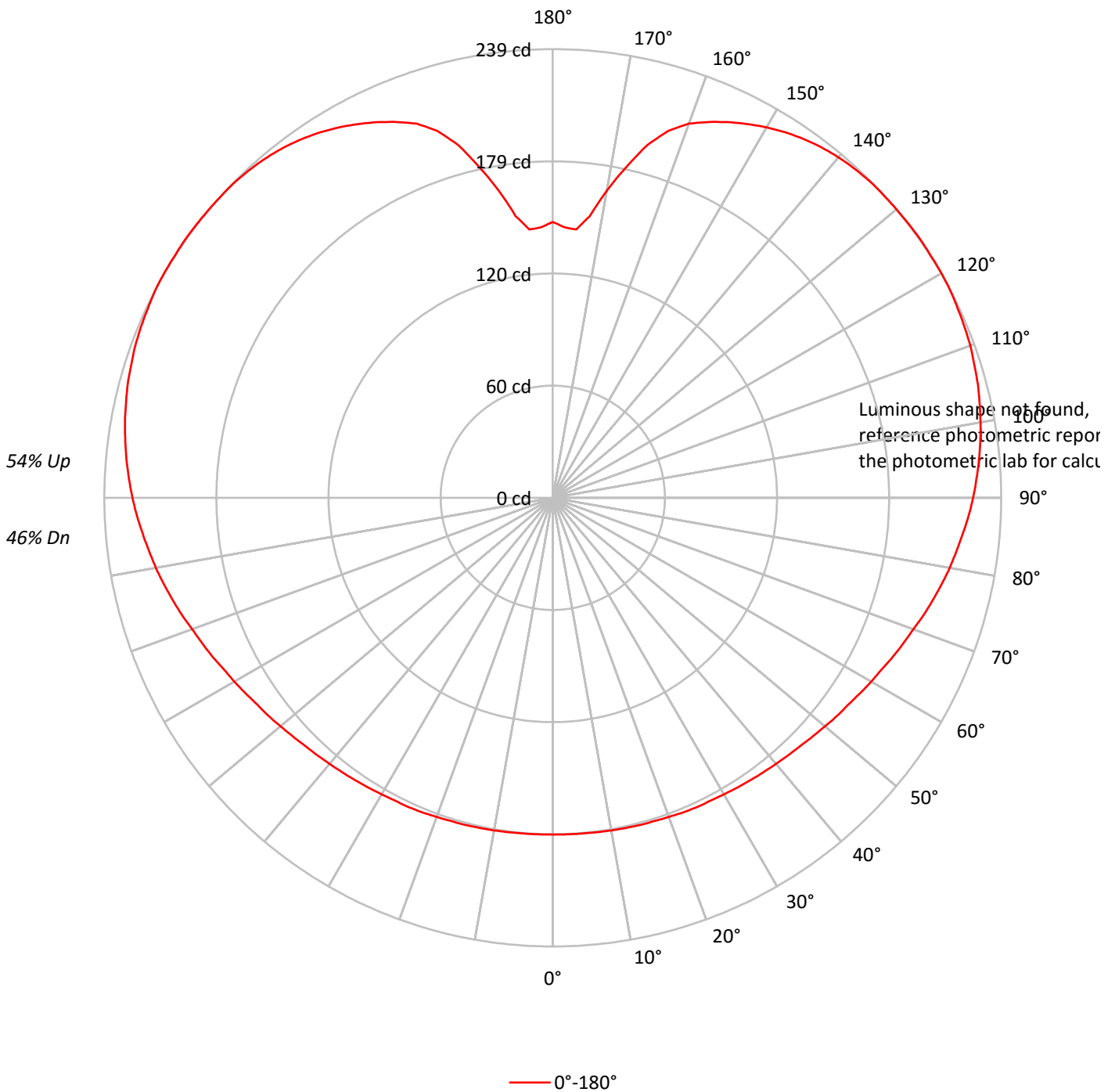
Summary

Lumens per Lamp: 3200 (1 lamp)
Luminaire Lumens: 2695.9 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°	17.1	0.6	0.5
10°-20°	51.1	1.9	1.6
20°-30°	84.1	3.1	2.6
30°-40°	115.4	4.3	3.6
40°-50°	144.8	5.4	4.5
50°-60°	172.7	6.4	5.4
60°-70°	198.7	7.4	6.2
70°-80°	221.9	8.2	6.9
80°-90°	239.4	8.9	7.5
90°-100°	248.6	9.2	7.8
100°-110°	247.9	9.2	7.7
110°-120°	236.4	8.8	7.4
120°-130°	214.7	8.0	6.7
130°-140°	184.6	6.8	5.8
140°-150°	146.4	5.4	4.6
150°-160°	102.3	3.8	3.2
160°-170°	55.2	2.0	1.7
170°-180°	14.5	0.5	0.5
0°-30°	152.4	5.7	4.8
0°-40°	267.8	9.9	8.4
0°-60°	585.3	21.7	18.3
0°-90°	1245.3	46.2	38.9
90°-120°	732.9	27.2	22.9
90°-150°	1278.6	47.4	40.0
90°-180°	1451.0	53.8	45.3
0°-180°	2695.9	100.0	84.2

CANDELA DISTRIBUTION:

	0°	Flux
0°	179	
5°	180	17
15°	180	51
25°	182	84
35°	184	115
45°	187	145
55°	192	173
65°	200	199
75°	210	222
85°	219	178
90°	224	123
95°	228	187
105°	234	248
115°	238	236
125°	239	215
135°	239	185
145°	233	146
155°	221	102
165°	194	55
175°	143	14
180°	147	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	179.4
2.5°	179.4
5°	179.5
7.5°	179.7
10°	179.9
12.5°	180.1
15°	180.4
17.5°	180.5
20°	180.9
22.5°	181.4
25°	181.8
27.5°	181.9
30°	182.4
32.5°	183.0
35°	183.6
37.5°	184.3
40°	185.0
42.5°	185.9
45°	186.8
47.5°	188.0
50°	189.4
52.5°	190.9
55°	192.2
57.5°	194.0
60°	195.9
62.5°	197.7
65°	200.1
67.5°	202.3
70°	204.5
72.5°	207.3
75°	209.8
77.5°	212.3
80°	214.8
82.5°	217.0
85°	219.4
87.5°	221.8
90°	224.0
92.5°	226.0
95°	228.0
97.5°	229.8
100°	231.5
102.5°	233.0
105°	234.5
107.5°	235.6
110°	236.8



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	237.6
115°	238.2
117.5°	238.9
120°	239.2
122.5°	239.2
125°	239.4
127.5°	239.3
130°	239.1
132.5°	238.9
135°	238.7
137.5°	237.9
140°	236.8
142.5°	235.3
145°	233.3
147.5°	230.8
150°	227.9
152.5°	224.5
155°	220.8
157.5°	216.7
160°	212.1
162.5°	205.0
165°	194.5
167.5°	180.3
170°	166.2
172.5°	151.3
175°	143.4
177.5°	144.2
180°	146.9

(END OF REPORT)