

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: 19432

Luminaire Tested: **434-SP-16-CF1/32**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 19432
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 434-SP-16-CF1/32
Description: INTERIOR SUSPENDED LUMINAIRE WITH WHITE GLASS GLOBE LENS

Light Source: ONE SYLVANIA 32 WATT CPFL LAMP

CF32DT/E/841. LUMEN RATING = 2400 LMS.

Ballast/Driver: -

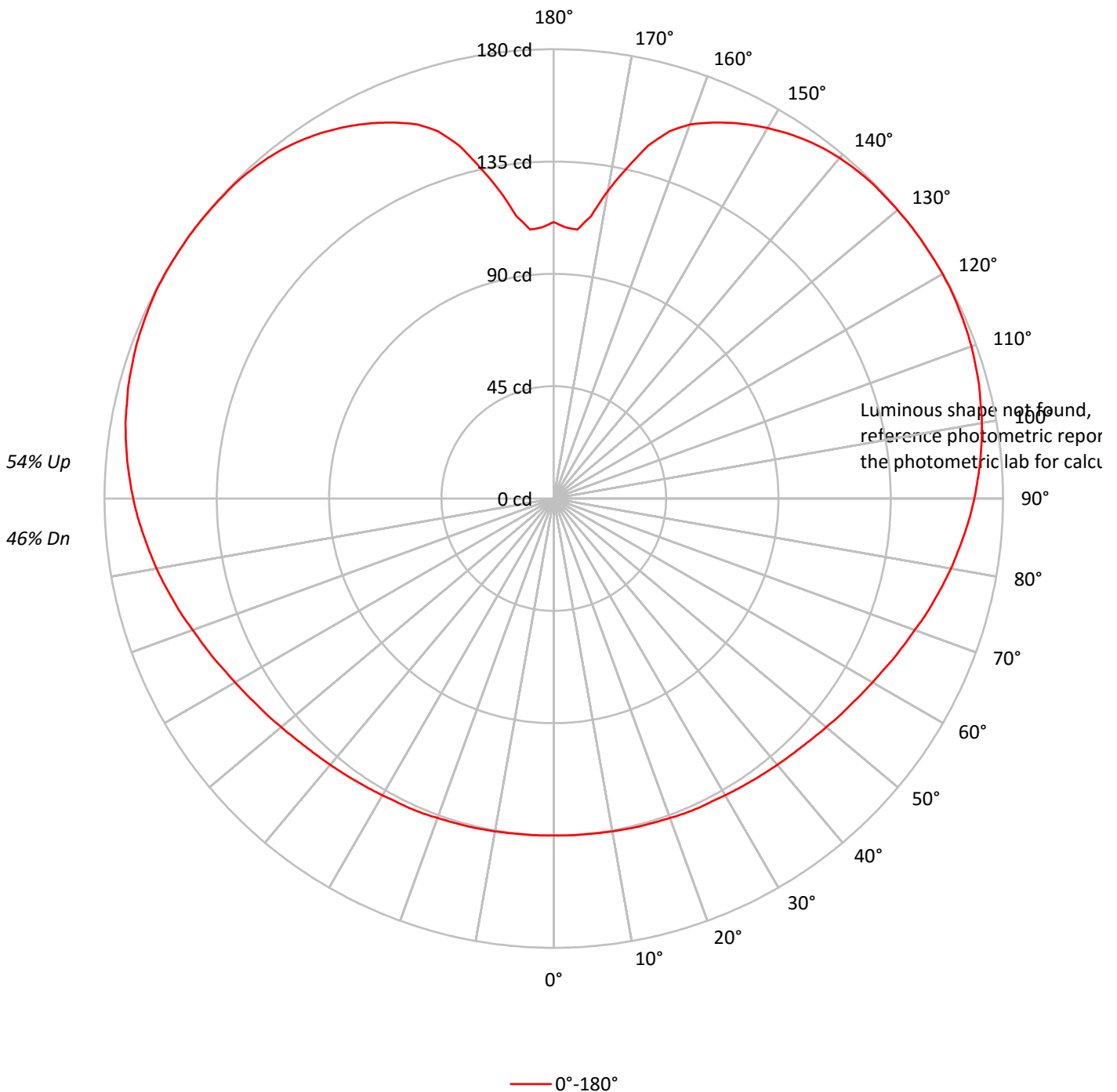
Summary

Lumens per Lamp: 2400 (1 lamp)
Luminaire Lumens: 2028.2 lumens
Efficiency: 84.5%
Efficacy: 61.5 lumens/watt
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): 33
Input Voltage (V): NR
Input Current (A_{in}): 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	69	69	69	56	56	56	44	44	44	39
1	78	73	68	64	71	67	63	59	55	52	49	44	41	39	34	32	30	25
2	70	62	55	50	63	56	51	46	46	42	38	36	33	30	28	25	23	19
3	63	53	46	40	57	49	42	37	40	35	30	31	27	24	23	21	18	14
4	57	47	39	33	52	42	36	30	35	29	25	27	23	20	20	17	15	12
5	52	41	33	28	47	37	31	25	31	25	21	24	20	17	18	15	12	9
6	48	37	29	24	43	33	27	22	27	22	18	22	17	14	16	13	11	8
7	44	33	25	20	40	30	23	19	25	19	15	19	15	12	15	12	9	7
8	41	30	23	18	37	27	21	16	22	17	13	18	14	11	13	10	8	6
9	38	27	20	16	34	25	18	14	20	15	12	16	12	10	12	9	7	5
10	35	25	18	14	32	22	17	13	19	14	11	15	11	8	11	9	6	5

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	12.9	0.6	0.5
10°-20°	38.5	1.9	1.6
20°-30°	63.3	3.1	2.6
30°-40°	86.9	4.3	3.6
40°-50°	109.0	5.4	4.5
50°-60°	130.0	6.4	5.4
60°-70°	149.5	7.4	6.2
70°-80°	167.0	8.2	7.0
80°-90°	180.1	8.9	7.5
90°-100°	187.0	9.2	7.8
100°-110°	186.4	9.2	7.8
110°-120°	177.8	8.8	7.4
120°-130°	161.4	8.0	6.7
130°-140°	138.8	6.8	5.8
140°-150°	110.2	5.4	4.6
150°-160°	76.9	3.8	3.2
160°-170°	41.5	2.0	1.7
170°-180°	10.9	0.5	0.5
0°-30°	114.7	5.7	4.8
0°-40°	201.6	9.9	8.4
0°-60°	440.6	21.7	18.4
0°-90°	937.2	46.2	39.0
90°-120°	551.3	27.2	23.0
90°-150°	961.7	47.4	40.1
90°-180°	1091.0	53.8	45.5
0°-180°	2028.2	100.0	84.5

CANDELA DISTRIBUTION:

	0°	Flux
0°	135	
5°	135	13
15°	136	38
25°	137	63
35°	138	87
45°	141	109
55°	145	130
65°	151	149
75°	158	167
85°	165	134
90°	168	92
95°	172	141
105°	176	186
115°	179	178
125°	180	161
135°	180	139
145°	176	110
155°	166	77
165°	146	42
175°	108	11
180°	111	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	135.0
2.5°	135.1
5°	135.1
7.5°	135.2
10°	135.4
12.5°	135.6
15°	135.8
17.5°	135.9
20°	136.2
22.5°	136.6
25°	136.8
27.5°	136.9
30°	137.3
32.5°	137.7
35°	138.2
37.5°	138.7
40°	139.3
42.5°	139.9
45°	140.6
47.5°	141.5
50°	142.5
52.5°	143.7
55°	144.7
57.5°	146.0
60°	147.4
62.5°	148.8
65°	150.6
67.5°	152.2
70°	153.9
72.5°	156.0
75°	157.8
77.5°	159.7
80°	161.6
82.5°	163.3
85°	165.1
87.5°	166.9
90°	168.5
92.5°	170.0
95°	171.5
97.5°	172.9
100°	174.2
102.5°	175.2
105°	176.4
107.5°	177.2
110°	178.1



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	178.7
115°	179.2
117.5°	179.7
120°	179.9
122.5°	179.9
125°	180.0
127.5°	180.0
130°	179.8
132.5°	179.6
135°	179.5
137.5°	178.9
140°	178.1
142.5°	177.0
145°	175.5
147.5°	173.6
150°	171.4
152.5°	168.9
155°	166.1
157.5°	163.0
160°	159.5
162.5°	154.3
165°	146.4
167.5°	135.7
170°	125.2
172.5°	114.0
175°	108.1
177.5°	108.7
180°	110.7

(END OF REPORT)