

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: 19434

Luminaire Tested: **434-SP-16-CF2/32**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 19434
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 434-SP-16-CF2/32
Description: INTERIOR SUSPENDED LUMINAIRE WITH WHITE GLASS GLOBE LENS

Light Source: TWO SYLVANIA 32 WATT CPFL LAMPS

CF32DT/E/841. LUMEN RATING = 4800 LMS.

Ballast/Driver: -

Summary

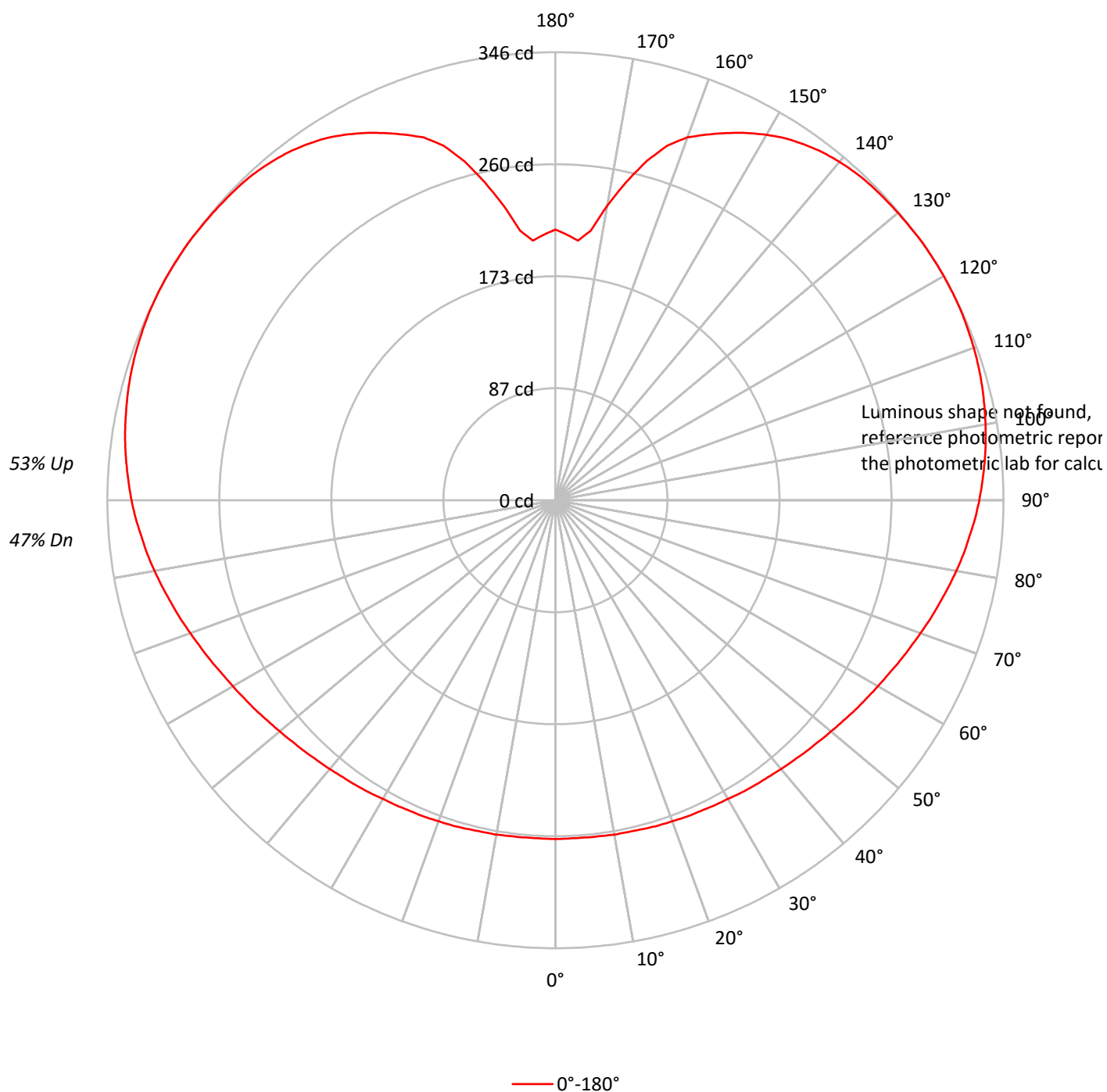
Lumens per Lamp: 4800 (1 lamp)
Luminaire Lumens: 3919.4 lumens
Efficiency: 81.7%
Efficacy: 63.2 lumens/watt
Spacing Criteria (0/90/45): 1.58 / 1.58 / 1.81
Luminous Opening: (L: 0 ' x W: -0.08 ' x H: 0.67 '
CIE Type: General Diffuse

Input Watts (W): 62
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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	87	87	87	87	80	80	80	80	66	66	66		54	54	54		43
1	76	71	66	62	69	64	61	57	53	50	47		42	40	38		33
2	68	60	53	48	61	55	49	44	45	40	37		35	32	29		27
3	61	52	44	39	55	47	41	35	38	33	29		30	27	23		23
4	55	45	38	32	50	41	34	29	33	28	24		26	22	19		20
5	50	40	32	27	46	36	29	24	30	24	20		23	19	16		18
6	46	35	28	23	42	32	26	21	26	21	17		21	17	14		16
7	43	32	25	20	39	29	23	18	24	19	15		19	15	12		14
8	39	29	22	17	36	26	20	16	22	17	13		17	13	10		13
9	37	26	19	15	33	24	18	14	20	15	11		16	12	9		12
10	34	24	17	13	31	22	16	12	18	13	10		14	11	8		11

AVERAGE LUMINANCE (cd/sqm):

0°	
5°	
10°	
15°	
20°	
25°	
30°	
35°	
40°	
45°	
50°	
55°	
60°	
65°	
70°	
75°	
80°	
85°	

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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	25.0	0.6	0.5
10°-20°	74.6	1.9	1.6
20°-30°	122.7	3.1	2.6
30°-40°	168.8	4.3	3.5
40°-50°	212.4	5.4	4.4
50°-60°	253.5	6.5	5.3
60°-70°	291.4	7.4	6.1
70°-80°	325.0	8.3	6.8
80°-90°	350.2	8.9	7.3
90°-100°	362.8	9.3	7.6
100°-110°	360.6	9.2	7.5
110°-120°	342.8	8.7	7.1
120°-130°	310.4	7.9	6.5
130°-140°	266.3	6.8	5.5
140°-150°	210.5	5.4	4.4
150°-160°	145.1	3.7	3.0
160°-170°	77.1	2.0	1.6
170°-180°	20.2	0.5	0.4
0°-30°	222.3	5.7	4.6
0°-40°	391.1	10.0	8.1
0°-60°	857.0	21.9	17.9
0°-90°	1823.7	46.5	38.0
90°-120°	1066.2	27.2	22.2
90°-150°	1853.4	47.3	38.6
90°-180°	2096.0	53.5	43.7
0°-180°	3919.4	100.0	81.7

CANDELA DISTRIBUTION:

	0°	Flux
0°	262	
5°	262	25
15°	263	75
25°	265	123
35°	269	169
45°	274	212
55°	282	254
65°	294	291
75°	307	325
85°	321	261
90°	327	179
95°	333	273
105°	341	361
115°	346	343
125°	346	310
135°	344	266
145°	335	210
155°	313	145
165°	271	77
175°	201	20
180°	209	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	261.7
2.5°	261.4
5°	261.5
7.5°	261.7
10°	262.2
12.5°	262.3
15°	262.8
17.5°	263.5
20°	263.8
22.5°	264.6
25°	264.9
27.5°	265.7
30°	266.3
32.5°	267.6
35°	268.7
37.5°	269.6
40°	271.0
42.5°	272.4
45°	274.1
47.5°	275.8
50°	277.8
52.5°	280.0
55°	282.5
57.5°	284.9
60°	287.5
62.5°	290.2
65°	293.5
67.5°	296.6
70°	300.0
72.5°	303.7
75°	307.1
77.5°	310.8
80°	314.3
82.5°	317.9
85°	320.9
87.5°	324.4
90°	327.3
92.5°	330.0
95°	332.6
97.5°	335.1
100°	337.3
102.5°	339.2
105°	341.1
107.5°	342.6
110°	343.8

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	344.8
115°	345.6
117.5°	346.1
120°	346.3
122.5°	346.3
125°	346.3
127.5°	345.7
130°	345.3
132.5°	344.7
135°	344.2
137.5°	343.1
140°	341.1
142.5°	338.8
145°	335.3
147.5°	331.3
150°	325.9
152.5°	319.8
155°	312.9
157.5°	305.6
160°	298.2
162.5°	287.0
165°	270.7
167.5°	251.2
170°	231.0
172.5°	210.0
175°	201.2
177.5°	205.2
180°	209.0

(END OF REPORT)