

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: 19374A

Luminaire Tested: **433-14-SH-CF1/32**

Issue Date: 3/3/2020

**Test Information**

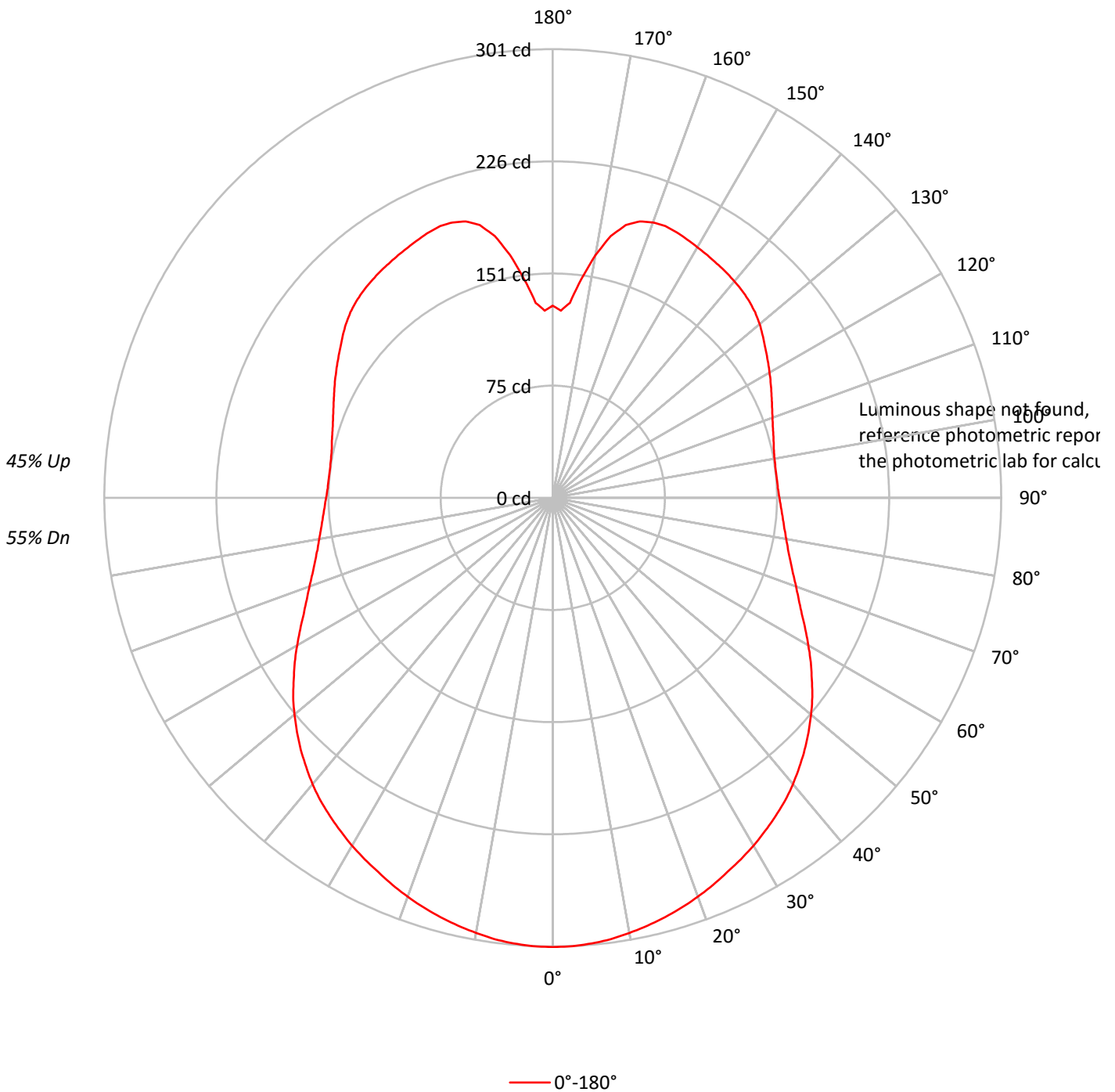
Test Method: LM-66-11  
Report Number: 19374A  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: SHAPER  
Catalog Number: 433-14-SH-CF1/32  
Description: INTERIOR CEILING MOUNT LUMINAIRE WITH WHITE GLASS LENS  
  
Light Source: ONE 32 WATT CPFL LAMP. LUMEN RATING = 2400 LMS.  
  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 2400 (1 lamp)  
Luminaire Lumens: 2372.2 lumens  
Efficiency: 98.8%  
Efficacy: -  
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.5  
Luminous Opening: (L: 0 ' x W: -0.08 ' x H: 0.46 '  
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	107	107	107	107	99	99	99	99	85	85	85		72	72	72		60	60	60	54
1	95	89	84	79	87	82	78	74	70	66	63		58	56	53		48	46	44	39
2	85	76	69	62	78	70	64	58	60	55	50		50	46	42		41	38	35	31
3	77	66	57	51	71	61	53	47	52	46	41		43	39	35		35	32	29	25
4	70	58	49	42	64	54	46	39	45	39	34		38	33	29		31	27	24	20
5	64	51	42	36	59	47	39	33	40	34	29		34	29	25		28	24	21	17
6	59	46	37	31	54	42	34	29	36	30	25		30	25	21		25	21	18	15
7	54	41	33	27	50	38	30	25	33	26	22		27	22	19		23	19	16	13
8	50	37	29	23	46	35	27	22	30	24	19		25	20	16		21	17	14	11
9	47	34	26	21	43	32	24	19	27	21	17		23	18	15		19	15	12	10
10	44	31	23	18	40	29	22	17	25	19	15		21	16	13		18	14	11	9

**AVERAGE LUMINANCE (cd/sqm):**





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	28.5	1.2	1.2
10°-20°	82.3	3.5	3.4
20°-30°	128.1	5.4	5.3
30°-40°	163.4	6.9	6.8
40°-50°	184.7	7.8	7.7
50°-60°	190.2	8.0	7.9
60°-70°	183.5	7.7	7.6
70°-80°	175.2	7.4	7.3
80°-90°	169.3	7.1	7.1
90°-100°	164.9	7.0	6.9
100°-110°	162.4	6.8	6.8
110°-120°	160.9	6.8	6.7
120°-130°	156.4	6.6	6.5
130°-140°	144.0	6.1	6.0
140°-150°	120.5	5.1	5.0
150°-160°	90.8	3.8	3.8
160°-170°	53.2	2.2	2.2
170°-180°	13.8	0.6	0.6
0°-30°	238.9	10.1	10.0
0°-40°	402.4	17.0	16.8
0°-60°	777.4	32.8	32.4
0°-90°	1305.3	55.0	54.4
90°-120°	488.2	20.6	20.3
90°-150°	909.2	38.3	37.9
90°-180°	1067.0	45.0	44.5
0°-180°	2372.2	100.0	98.8

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	301	
5°	300	29
15°	291	82
25°	277	128
35°	261	163
45°	239	185
55°	212	190
65°	184	184
75°	165	175
85°	155	127
90°	152	83
95°	151	123
105°	153	162
115°	162	161
125°	174	156
135°	186	144
145°	192	121
155°	197	91
165°	189	53
175°	131	14
180°	129	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	301.4
2.5°	301.1
5°	300.1
7.5°	298.7
10°	296.4
12.5°	294.0
15°	291.2
17.5°	288.2
20°	284.8
22.5°	281.1
25°	277.1
27.5°	273.4
30°	269.5
32.5°	265.1
35°	260.7
37.5°	256.1
40°	250.8
42.5°	245.0
45°	239.1
47.5°	232.8
50°	226.3
52.5°	219.6
55°	212.2
57.5°	205.3
60°	198.1
62.5°	191.1
65°	184.4
67.5°	178.7
70°	173.7
72.5°	169.1
75°	165.2
77.5°	161.8
80°	159.1
82.5°	156.8
85°	154.9
87.5°	153.4
90°	152.1
92.5°	151.2
95°	150.9
97.5°	150.8
100°	151.1
102.5°	151.9
105°	153.4
107.5°	154.9
110°	156.9



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	159.3
115°	162.0
117.5°	165.0
120°	168.0
122.5°	171.1
125°	174.2
127.5°	177.8
130°	181.3
132.5°	184.2
135°	186.5
137.5°	188.3
140°	189.6
142.5°	190.9
145°	191.9
147.5°	193.0
150°	194.1
152.5°	195.4
155°	196.6
157.5°	197.3
160°	196.6
162.5°	194.4
165°	189.4
167.5°	179.8
170°	165.3
172.5°	148.1
175°	131.2
177.5°	125.7
180°	128.9

(END OF REPORT)