

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: 19379A

Luminaire Tested: **460--CF1/18**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 19379A
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 460--CF1/18
Description: INTERIOR CEILING MOUNT LUMINAIRE WITH ALUMINUM SHADE

Light Source: ONE 18 WATT CPFL LAMP. LUMEN RATING = 1250 LMS.

Ballast/Driver: -

Summary

Lumens per Lamp: 1250 (1 lamp)
Luminaire Lumens: 435.0 lumens
Efficiency: 34.8%
Efficacy: -
Spacing Criteria (0/90/45): 1.8 / 1.8 / 1.68
Luminous Opening: (L: 0 ' x W: -0.5 ' x H: 0 '
CIE Type: Direct

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

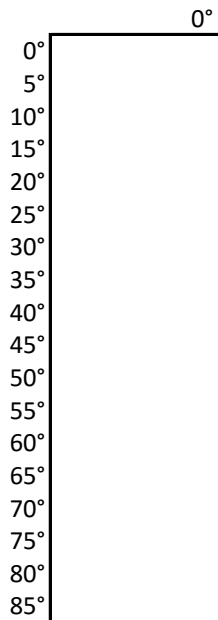


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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	41	41	41	41	40	40	40	40	38	38	38	36	36	36	34	34	34	33
1	38	36	35	34	37	35	34	33	34	33	32	32	31	31	31	30	29	29
2	35	32	30	28	34	31	29	28	30	28	27	28	27	26	27	26	25	24
3	32	28	26	24	31	28	25	23	26	24	23	25	24	22	24	23	22	21
4	29	25	22	20	28	25	22	20	24	21	19	23	21	19	22	20	19	18
5	27	23	20	17	26	22	19	17	21	19	17	20	18	17	20	18	16	16
6	25	20	17	15	24	20	17	15	19	17	15	18	16	15	18	16	14	14
7	23	18	16	13	22	18	15	13	17	15	13	17	15	13	16	14	13	12
8	21	17	14	12	21	17	14	12	16	13	12	15	13	12	15	13	11	11
9	20	15	13	11	19	15	12	11	15	12	11	14	12	10	14	12	10	10
10	19	14	11	10	18	14	11	10	14	11	10	13	11	9	13	11	9	9

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	11.3	2.6	0.9
10°-20°	41.5	9.5	3.3
20°-30°	72.5	16.7	5.8
30°-40°	85.8	19.7	6.9
40°-50°	81.3	18.7	6.5
50°-60°	63.5	14.6	5.1
60°-70°	38.4	8.8	3.1
70°-80°	18.1	4.2	1.4
80°-90°	4.6	1.0	0.4
90°-100°	1.0	0.2	0.1
100°-110°	1.5	0.3	0.1
110°-120°	2.1	0.5	0.2
120°-130°	2.8	0.6	0.2
130°-140°	3.1	0.7	0.3
140°-150°	3.1	0.7	0.2
150°-160°	2.9	0.7	0.2
160°-170°	1.3	0.3	0.1
170°-180°	0.1	0.0	0.0
0°-30°	125.3	28.8	10.0
0°-40°	211.1	48.5	16.9
0°-60°	355.9	81.8	28.5
0°-90°	417.0	95.9	33.4
90°-120°	4.7	1.1	0.4
90°-150°	13.7	3.2	1.1
90°-180°	18.0	4.1	1.4
0°-180°	435.0	100.0	34.8

CANDELA DISTRIBUTION:

	0°	Flux
0°	95	
5°	112	11
15°	146	41
25°	159	73
35°	138	86
45°	105	81
55°	71	64
65°	38	38
75°	17	18
85°	4	4
90°	1	1
95°	1	1
105°	1	2
115°	2	2
125°	3	3
135°	4	3
145°	5	3
155°	6	3
165°	5	1
175°	1	0
180°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	94.8
2.5°	100.7
5°	112.1
7.5°	122.1
10°	131.7
12.5°	139.6
15°	146.1
17.5°	151.2
20°	155.4
22.5°	158.6
25°	159.2
27.5°	156.3
30°	150.9
32.5°	144.3
35°	137.6
37.5°	130.1
40°	122.2
42.5°	113.6
45°	105.4
47.5°	97.2
50°	88.9
52.5°	80.8
55°	71.2
57.5°	61.7
60°	52.9
62.5°	45.6
65°	38.3
67.5°	32.0
70°	26.3
72.5°	21.2
75°	16.8
77.5°	12.8
80°	9.5
82.5°	6.3
85°	3.8
87.5°	1.5
90°	0.8
92.5°	0.9
95°	0.9
97.5°	1.0
100°	1.2
102.5°	1.3
105°	1.4
107.5°	1.6
110°	1.7



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	1.9
115°	2.1
117.5°	2.4
120°	2.7
122.5°	2.9
125°	3.1
127.5°	3.4
130°	3.6
132.5°	3.8
135°	4.1
137.5°	4.3
140°	4.5
142.5°	4.7
145°	5.0
147.5°	5.2
150°	5.4
152.5°	5.9
155°	6.5
157.5°	6.8
160°	5.7
162.5°	4.9
165°	4.7
167.5°	4.2
170°	3.0
172.5°	1.4
175°	0.7
177.5°	0.5
180°	0.5

(END OF REPORT)