

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: 19375A

Luminaire Tested: **233-14-SP-CF1/32**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 19375A
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 233-14-SP-CF1/32
Description: INTERIOR CEILING MOUNT LUMINAIRE WITH WHITE GLASS LENS

Light Source: ONE 32 WATT CPFL LAMP. LUMEN RATING = 2400 LMS.

Ballast/Driver: -

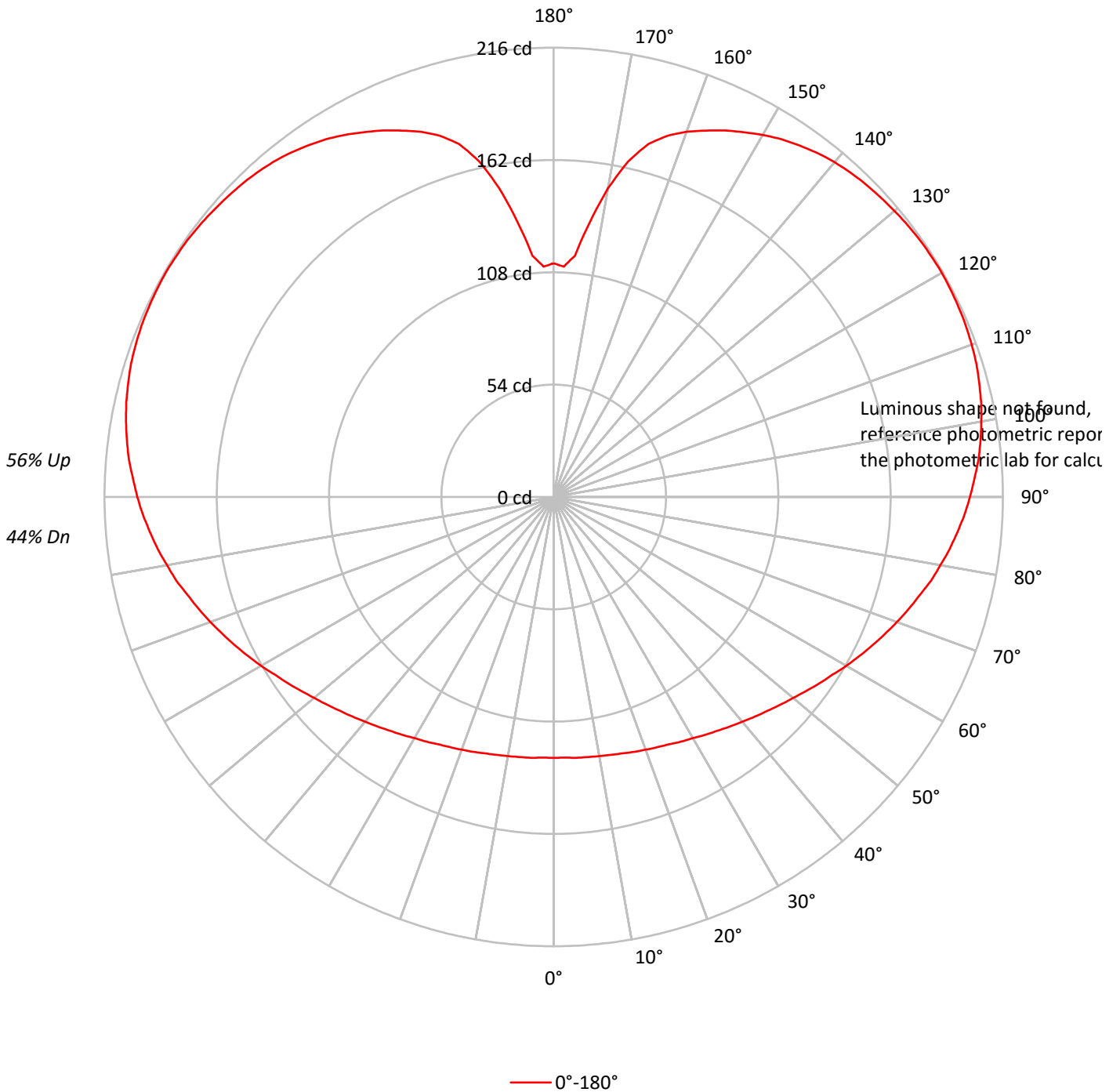
Summary

Lumens per Lamp: 2400 (1 lamp)
Luminaire Lumens: 2321.1 lumens
Efficiency: 96.7%
Efficacy: -
Spacing Criteria (0/90/45): 1.7 / 1.7 / 1.95
Luminous Opening: (L: 0 ' x W: -0.08 ' x H: 0.58 '
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

TEST NUMBER: 19375A
CATALOG NUMBER: 233-14-SP-CF1/32

Luminous Intensity Polar Plot





TEST NUMBER: 19375A

CATALOG NUMBER: 233-14-SP-CF1/32

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	102	102	102	102	94	94	94	94	77	77	77	63	63	63	49	49	49	43
1	89	83	78	73	81	75	71	66	61	58	54	48	46	43	36	35	33	27
2	79	70	63	56	72	64	57	51	51	46	42	40	36	33	30	27	25	19
3	72	60	52	45	64	55	47	41	44	38	34	34	30	26	25	22	19	15
4	65	53	44	37	58	48	40	34	39	32	28	30	25	22	22	18	16	12
5	59	46	38	31	53	42	34	28	34	28	23	26	22	18	19	16	13	10
6	54	41	33	26	49	37	30	24	30	24	20	24	19	15	17	14	11	8
7	50	37	29	23	45	34	26	21	27	21	17	21	17	13	16	12	10	7
8	46	33	25	20	42	30	23	18	25	19	15	19	15	12	14	11	8	6
9	43	30	23	17	39	28	21	16	22	17	13	18	13	10	13	10	7	5
10	40	28	20	15	36	25	19	14	21	15	11	16	12	9	12	9	7	5

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: 19375A

CATALOG NUMBER: 233-14-SP-CF1/32

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	12.0	0.5	0.5
10°-20°	36.3	1.6	1.5
20°-30°	60.9	2.6	2.5
30°-40°	86.4	3.7	3.6
40°-50°	112.8	4.9	4.7
50°-60°	140.2	6.0	5.8
60°-70°	167.8	7.2	7.0
70°-80°	192.9	8.3	8.0
80°-90°	212.5	9.2	8.9
90°-100°	223.4	9.6	9.3
100°-110°	223.9	9.6	9.3
110°-120°	213.3	9.2	8.9
120°-130°	192.8	8.3	8.0
130°-140°	164.4	7.1	6.9
140°-150°	129.5	5.6	5.4
150°-160°	90.1	3.9	3.8
160°-170°	49.5	2.1	2.1
170°-180°	12.3	0.5	0.5
0°-30°	109.2	4.7	4.5
0°-40°	195.5	8.4	8.1
0°-60°	448.5	19.3	18.7
0°-90°	1021.8	44.0	42.6
90°-120°	660.6	28.5	27.5
90°-150°	1147.4	49.4	47.8
90°-180°	1299.0	56.0	54.1
0°-180°	2321.1	100.0	96.7

CANDELA DISTRIBUTION:

	0°	Flux
0°	125	
5°	126	12
15°	128	36
25°	131	61
35°	137	86
45°	145	113
55°	156	140
65°	169	168
75°	182	193
85°	195	158
90°	200	110
95°	205	168
105°	212	224
115°	215	213
125°	215	193
135°	212	164
145°	206	130
155°	194	90
165°	176	50
175°	116	12
180°	112	

TEST NUMBER: 19375A
CATALOG NUMBER: 233-14-SP-CF1/32

CANDELA DISTRIBUTION (FULL):

0°	
0°	125.4
2.5°	125.4
5°	125.9
7.5°	126.1
10°	126.5
12.5°	127.0
15°	127.6
17.5°	128.5
20°	129.3
22.5°	130.2
25°	131.2
27.5°	132.6
30°	133.9
32.5°	135.6
35°	137.2
37.5°	139.1
40°	141.0
42.5°	143.2
45°	145.4
47.5°	147.8
50°	150.3
52.5°	153.1
55°	156.1
57.5°	159.0
60°	162.4
62.5°	165.7
65°	169.0
67.5°	172.3
70°	175.7
72.5°	179.0
75°	182.2
77.5°	185.9
80°	188.8
82.5°	192.0
85°	194.8
87.5°	197.7
90°	200.2
92.5°	202.5
95°	205.0
97.5°	207.0
100°	208.8
102.5°	210.5
105°	211.8
107.5°	213.1
110°	213.9



TEST NUMBER: 19375A
CATALOG NUMBER: 233-14-SP-CF1/32

CANDELA DISTRIBUTION (continued):

	0°
112.5°	214.6
115°	215.0
117.5°	215.3
120°	215.5
122.5°	215.3
125°	215.1
127.5°	214.6
130°	213.9
132.5°	213.2
135°	212.4
137.5°	211.4
140°	210.1
142.5°	208.4
145°	206.2
147.5°	203.9
150°	201.0
152.5°	197.7
155°	194.4
157.5°	190.6
160°	186.9
162.5°	182.1
165°	175.7
167.5°	165.1
170°	150.7
172.5°	133.3
175°	116.3
177.5°	110.8
180°	112.3

(END OF REPORT)