

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: 19375B

Luminaire Tested: **233-14-SP-CF1/42**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 19375B
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 233-14-SP-CF1/42
Description: INTERIOR CEILING MOUNT LUMINAIRE WITH WHITE GLASS LENS

Light Source: ONE 42 WATT CPFL LAMP. LUMEN RATING = 3200 LMS.

Ballast/Driver: -

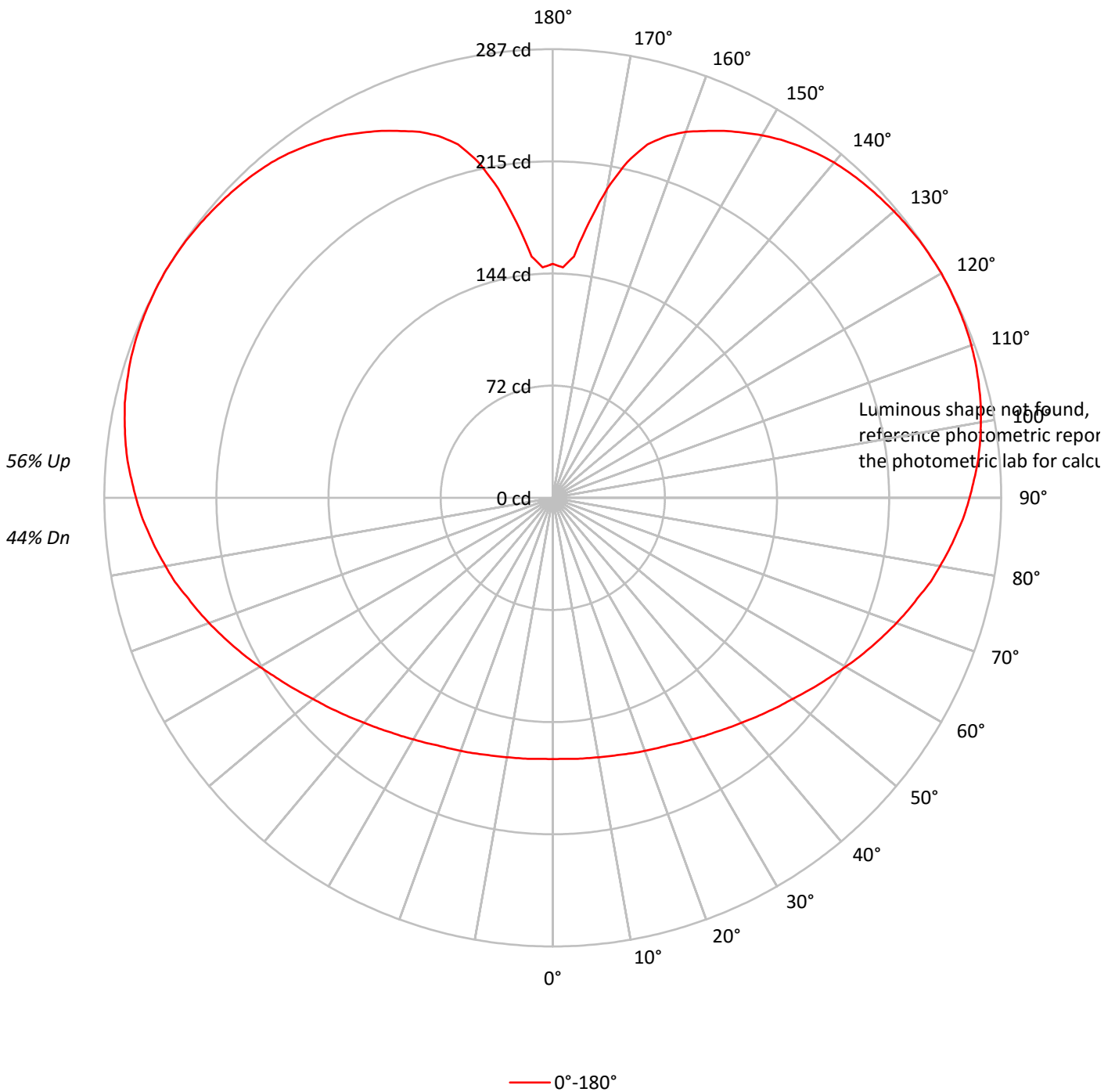
Summary

Lumens per Lamp: 3200 (1 lamp)
Luminaire Lumens: 3092.8 lumens
Efficiency: 96.6%
Efficacy: -
Spacing Criteria (0/90/45): 1.69 / 1.69 / 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

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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	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	34	33	27
2	79	70	63	56	72	64	57	51	51	46	42		40	36	33		30	27	25	19
3	71	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	38	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	18	14	21	15	11		16	12	9		12	9	7	5

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	16.0	0.5	0.5
10°-20°	48.3	1.6	1.5
20°-30°	81.1	2.6	2.5
30°-40°	115.0	3.7	3.6
40°-50°	150.3	4.9	4.7
50°-60°	186.8	6.0	5.8
60°-70°	223.6	7.2	7.0
70°-80°	257.1	8.3	8.0
80°-90°	283.1	9.2	8.8
90°-100°	297.7	9.6	9.3
100°-110°	298.4	9.6	9.3
110°-120°	284.3	9.2	8.9
120°-130°	257.0	8.3	8.0
130°-140°	219.1	7.1	6.8
140°-150°	172.6	5.6	5.4
150°-160°	120.0	3.9	3.8
160°-170°	66.0	2.1	2.1
170°-180°	16.5	0.5	0.5
0°-30°	145.4	4.7	4.5
0°-40°	260.4	8.4	8.1
0°-60°	597.5	19.3	18.7
0°-90°	1361.4	44.0	42.5
90°-120°	880.3	28.5	27.5
90°-150°	1528.9	49.4	47.8
90°-180°	1731.0	56.0	54.1
0°-180°	3092.8	100.0	96.6

CANDELA DISTRIBUTION:

0°	Flux
0°	167
5°	168
15°	170
25°	175
35°	183
45°	194
55°	208
65°	225
75°	243
85°	260
90°	267
95°	273
105°	282
115°	286
125°	287
135°	283
145°	275
155°	259
165°	234
175°	155
180°	150



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CANDELA DISTRIBUTION (FULL):

0°	
0°	167.1
2.5°	167.1
5°	167.6
7.5°	168.0
10°	168.5
12.5°	169.2
15°	170.0
17.5°	171.2
20°	172.3
22.5°	173.4
25°	174.7
27.5°	176.6
30°	178.4
32.5°	180.6
35°	182.7
37.5°	185.3
40°	187.8
42.5°	190.8
45°	193.8
47.5°	197.0
50°	200.2
52.5°	204.0
55°	208.0
57.5°	211.9
60°	216.3
62.5°	220.8
65°	225.1
67.5°	229.6
70°	234.1
72.5°	238.5
75°	242.8
77.5°	247.8
80°	251.6
82.5°	255.8
85°	259.5
87.5°	263.5
90°	266.7
92.5°	269.9
95°	273.2
97.5°	275.8
100°	278.2
102.5°	280.5
105°	282.2
107.5°	283.9
110°	285.1



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	286.0
115°	286.5
117.5°	286.9
120°	287.2
122.5°	286.9
125°	286.6
127.5°	285.9
130°	285.1
132.5°	284.1
135°	283.0
137.5°	281.7
140°	280.0
142.5°	277.7
145°	274.8
147.5°	271.6
150°	267.8
152.5°	263.4
155°	259.0
157.5°	254.0
160°	249.1
162.5°	242.6
165°	234.1
167.5°	220.0
170°	200.8
172.5°	177.6
175°	154.9
177.5°	147.5
180°	149.6

(END OF REPORT)