

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: 19860

Luminaire Tested: **293-S-T5C/1/40**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 19860
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 293-S-T5C/1/40
Description: INTERIOR CEILING MOUNT LUMINAIRE WITH WHITE INTERIOR AND WHITE
PLASTIC BOWL LENS
Light Source: ONE PHILIPS 40 WATT CIRCULAR LAMP

FC12T5/830. LUMEN RATING = 3300 LMS.

Ballast/Driver: -

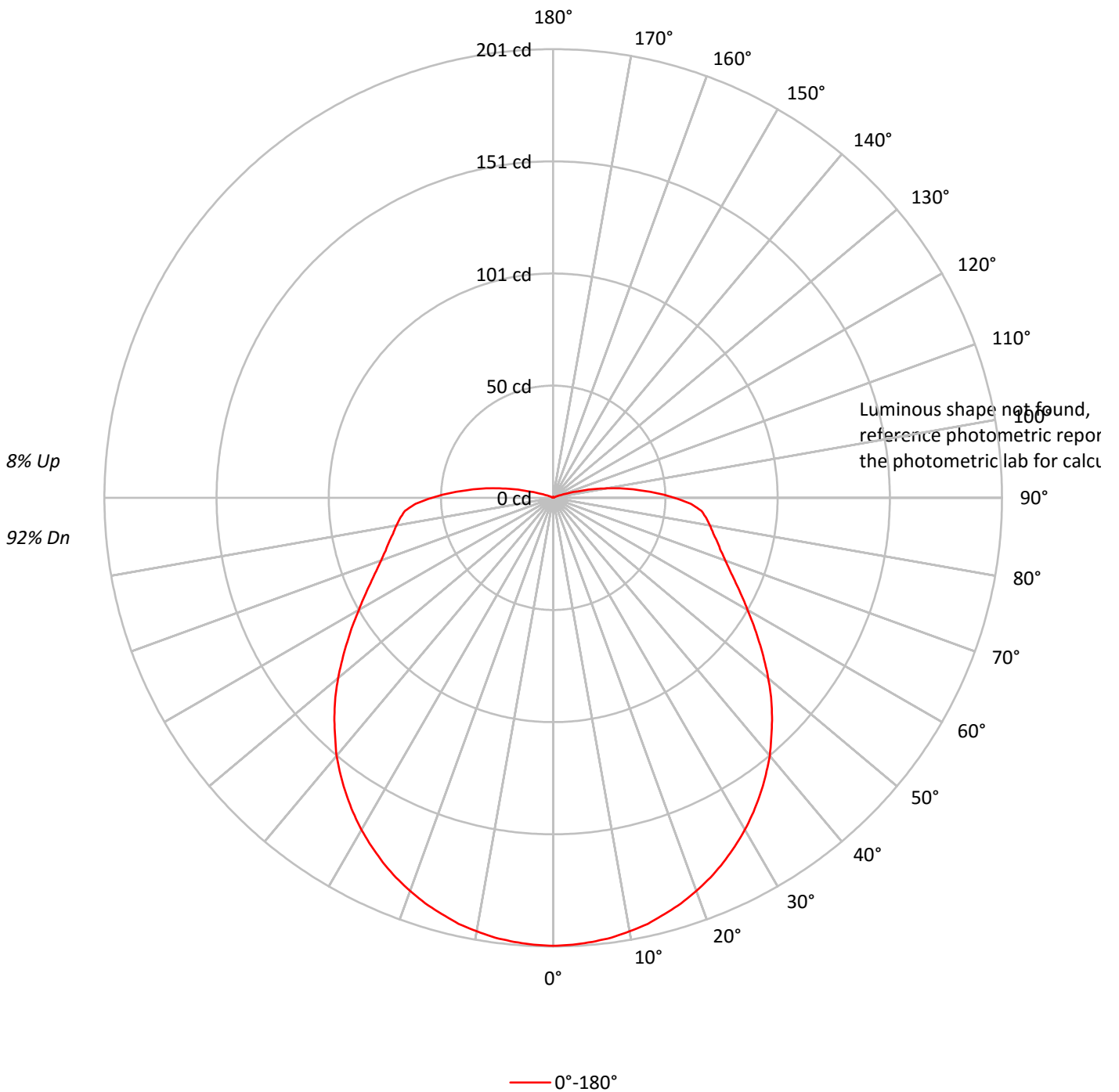
Summary

Lumens per Lamp: 3300 (1 lamp)
Luminaire Lumens: 764.9 lumens
Efficiency: 23.2%
Efficacy: 23.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.4
Luminous Opening: (L: 0 ' x W: -1.04 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 33
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	27	27	27	27	26	26	26	26	25	25	25	23	23	23	22	22	22	21
1	24	23	21	20	23	22	21	20	20	19	19	19	18	18	18	17	17	16
2	22	19	17	16	21	19	17	15	18	16	15	16	15	14	15	14	14	13
3	19	17	15	13	19	16	14	13	15	14	12	14	13	12	14	12	11	11
4	18	15	12	11	17	14	12	11	13	12	10	13	11	10	12	11	10	9
5	16	13	11	9	16	13	11	9	12	10	9	11	10	9	11	9	8	8
6	15	12	10	8	14	11	9	8	11	9	8	10	9	7	10	8	7	7
7	14	11	8	7	13	10	8	7	10	8	7	9	8	7	9	7	6	6
8	13	10	8	6	12	9	7	6	9	7	6	9	7	6	8	7	6	5
9	12	9	7	6	12	9	7	6	8	7	5	8	6	5	8	6	5	5
10	11	8	6	5	11	8	6	5	8	6	5	7	6	5	7	6	5	4

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	19.0	2.5	0.6
10°-20°	54.5	7.1	1.7
20°-30°	83.1	10.9	2.5
30°-40°	101.3	13.2	3.1
40°-50°	107.0	14.0	3.2
50°-60°	101.0	13.2	3.1
60°-70°	89.8	11.7	2.7
70°-80°	80.6	10.5	2.4
80°-90°	71.0	9.3	2.2
90°-100°	42.8	5.6	1.3
100°-110°	13.0	1.7	0.4
110°-120°	1.4	0.2	0.0
120°-130°	0.1	0.0	0.0
130°-140°	0.1	0.0	0.0
140°-150°	0.1	0.0	0.0
150°-160°	0.1	0.0	0.0
160°-170°	0.1	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-30°	156.6	20.5	4.7
0°-40°	257.9	33.7	7.8
0°-60°	465.8	60.9	14.1
0°-90°	707.2	92.5	21.4
90°-120°	57.2	7.5	1.7
90°-150°	57.5	7.5	1.7
90°-180°	58.0	7.6	1.8
0°-180°	764.9	100.0	23.2

CANDELA DISTRIBUTION:

0°	Flux
0°	201
5°	200
15°	193
25°	180
35°	162
45°	139
55°	113
65°	90
75°	76
85°	67
90°	54
95°	39
105°	11
115°	1
125°	0
135°	0
145°	0
155°	0
165°	0
175°	0
180°	0



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CANDELA DISTRIBUTION (FULL):

0°	
0°	200.7
2.5°	200.4
5°	199.7
7.5°	198.8
10°	197.2
12.5°	195.5
15°	193.0
17.5°	190.5
20°	187.4
22.5°	184.1
25°	180.3
27.5°	176.1
30°	171.7
32.5°	166.9
35°	161.8
37.5°	156.4
40°	150.9
42.5°	144.6
45°	138.6
47.5°	132.3
50°	125.7
52.5°	119.1
55°	112.6
57.5°	106.5
60°	100.5
62.5°	95.2
65°	90.2
67.5°	85.8
70°	82.0
72.5°	78.7
75°	76.0
77.5°	73.4
80°	71.3
82.5°	69.1
85°	66.6
87.5°	61.7
90°	54.3
92.5°	46.7
95°	38.9
97.5°	31.8
100°	24.4
102.5°	17.5
105°	11.0
107.5°	6.4
110°	3.6



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	2.1
115°	1.1
117.5°	0.4
120°	0.3
122.5°	0.1
125°	0.1
127.5°	0.1
130°	0.1
132.5°	0.1
135°	0.1
137.5°	0.1
140°	0.2
142.5°	0.2
145°	0.1
147.5°	0.2
150°	0.1
152.5°	0.2
155°	0.2
157.5°	0.3
160°	0.3
162.5°	0.2
165°	0.2
167.5°	0.3
170°	0.2
172.5°	0.2
175°	0.3
177.5°	0.3
180°	0.3

(END OF REPORT)