

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: 19378A

Luminaire Tested: **248-DP-16-CF2/13**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 19378A
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 248-DP-16-CF2/13
Description: INTERIOR CEILING MOUNT LUMINAIRE WITH WHITE INTERIOR AND WHITE PLASTIC LENS
Light Source: TWO 13 WATT CPFL LAMPS. LUMEN RATING = 1800 LMS.

Ballast/Driver: -

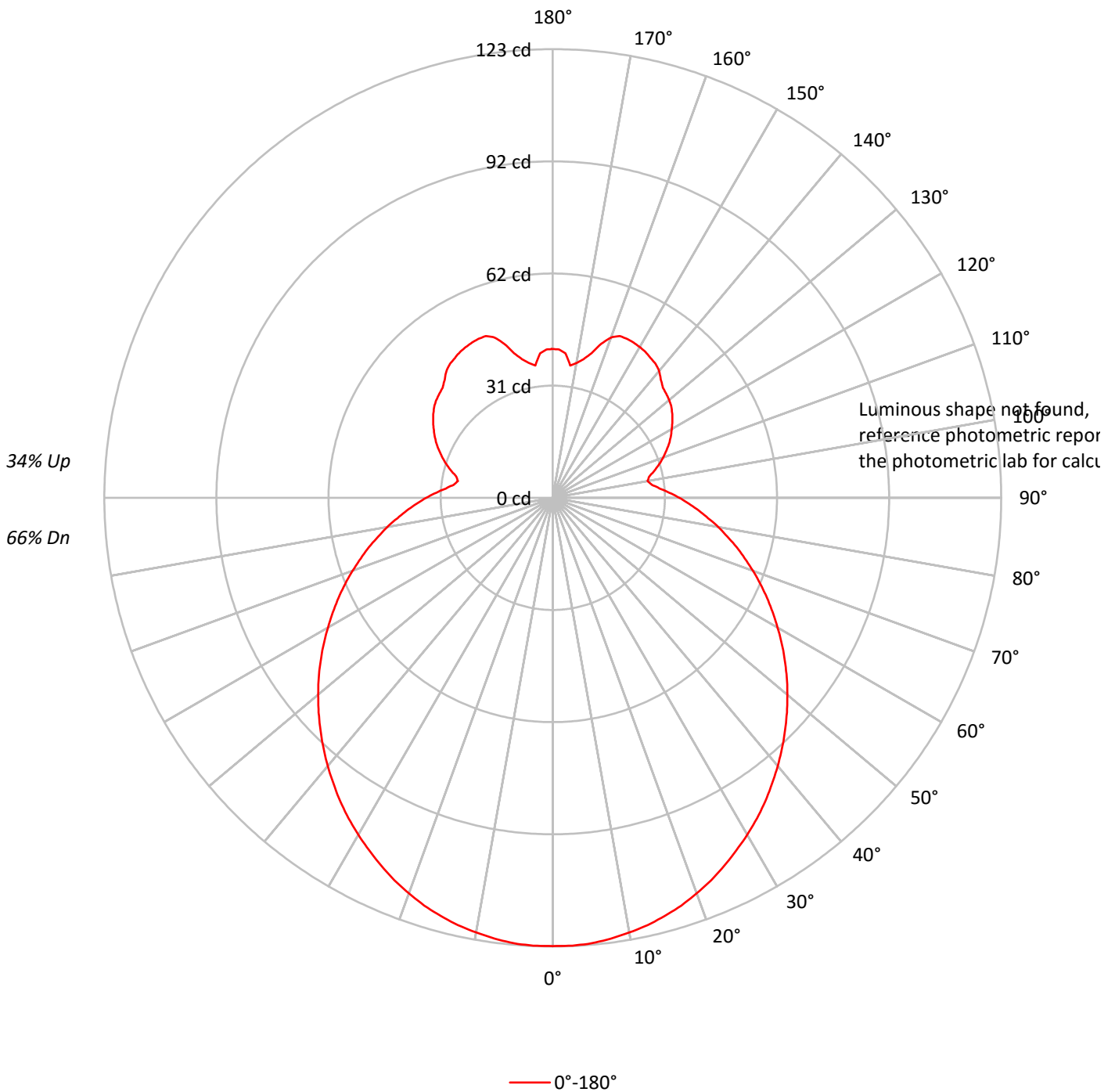
Summary

Lumens per Lamp: 1800 (1 lamp)
Luminaire Lumens: 696.8 lumens
Efficiency: 38.7%
Efficacy: -
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.44
Luminous Opening: (L: 0 ' x W: -1.1 ' x H: 0.37 '
CIE Type: Semi-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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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	43	43	43	43	40	40	40	40	36	36	36	31	31	31	28	28	28	26
1	38	36	34	32	36	34	32	31	30	28	27	26	25	24	23	22	21	19
2	34	31	28	26	32	29	26	24	25	23	22	22	21	19	19	18	17	15
3	31	27	23	21	29	25	22	20	22	20	18	19	17	16	17	15	14	13
4	28	24	20	17	26	22	19	17	20	17	15	17	15	13	15	13	12	11
5	26	21	17	15	24	20	16	14	17	15	13	15	13	11	13	12	10	9
6	24	19	15	13	22	18	14	12	16	13	11	14	12	10	12	10	9	8
7	22	17	13	11	21	16	13	11	14	12	10	12	10	9	11	9	8	7
8	20	15	12	10	19	14	11	9	13	10	9	11	9	8	10	8	7	6
9	19	14	11	9	18	13	10	8	12	9	8	10	8	7	9	7	6	5
10	18	13	10	8	17	12	9	7	11	8	7	10	8	6	9	7	6	5

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	11.6	1.7	0.6
10°-20°	33.5	4.8	1.9
20°-30°	51.4	7.4	2.9
30°-40°	63.6	9.1	3.5
40°-50°	69.6	10.0	3.9
50°-60°	69.6	10.0	3.9
60°-70°	64.2	9.2	3.6
70°-80°	55.1	7.9	3.1
80°-90°	43.9	6.3	2.4
90°-100°	32.6	4.7	1.8
100°-110°	30.6	4.4	1.7
110°-120°	34.8	5.0	1.9
120°-130°	35.8	5.1	2.0
130°-140°	33.3	4.8	1.9
140°-150°	29.3	4.2	1.6
150°-160°	22.1	3.2	1.2
160°-170°	11.9	1.7	0.7
170°-180°	3.7	0.5	0.2
0°-30°	96.5	13.9	5.4
0°-40°	160.1	23.0	8.9
0°-60°	299.4	43.0	16.6
0°-90°	462.6	66.4	25.7
90°-120°	98.0	14.1	5.4
90°-150°	196.4	28.2	10.9
90°-180°	234.0	33.6	13.0
0°-180°	696.8	100.0	38.7

CANDELA DISTRIBUTION:

0°	Flux
0°	123
5°	123
15°	119
25°	111
35°	102
45°	90
55°	78
65°	65
75°	52
85°	40
90°	35
95°	29
105°	29
115°	35
125°	40
135°	43
145°	47
155°	48
165°	41
175°	40
180°	41



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CANDELA DISTRIBUTION (FULL):

0°	
0°	122.9
2.5°	122.9
5°	122.6
7.5°	121.9
10°	121.0
12.5°	120.0
15°	118.7
17.5°	117.2
20°	115.4
22.5°	113.5
25°	111.3
27.5°	109.0
30°	106.7
32.5°	104.2
35°	101.6
37.5°	98.8
40°	96.0
42.5°	93.1
45°	90.1
47.5°	87.1
50°	84.0
52.5°	80.9
55°	77.7
57.5°	74.5
60°	71.2
62.5°	68.0
65°	64.8
67.5°	61.6
70°	58.4
72.5°	55.2
75°	52.2
77.5°	49.0
80°	46.1
82.5°	43.0
85°	40.2
87.5°	37.4
90°	34.7
92.5°	32.0
95°	29.4
97.5°	27.4
100°	26.4
102.5°	27.1
105°	28.9
107.5°	30.6
110°	32.2



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	33.7
115°	35.2
117.5°	36.5
120°	37.7
122.5°	38.9
125°	40.0
127.5°	41.0
130°	41.7
132.5°	42.2
135°	42.7
137.5°	43.9
140°	45.4
142.5°	46.3
145°	46.8
147.5°	47.4
150°	47.7
152.5°	48.0
155°	48.1
157.5°	48.0
160°	46.8
162.5°	44.3
165°	41.0
167.5°	38.9
170°	37.5
172.5°	36.6
175°	39.8
177.5°	40.7
180°	40.8

(END OF REPORT)