

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: P13104

Luminaire Tested: **498-RP-CFL/2/42-120V-CG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: P13104
Test Lab: PEACHTREE CITY
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 498-RP-CFL/2/42-120V-CG
Description: SHAPER 24 INCH PENDANT CFL RECESSED FIXTURE WITH PORTFOLIO 8
INCH RECESSED CFL DOWNLIGHT (C82428350), LI REFLECTOR, WHITE
COLLAR RING, AND 24 INCH DIAMETER CARMEL SWIRL PENDANT GLASS.
BASE OF LAMPS TOWARD 0 DEGREES LATERAL
Light Source: (2) FOUR PIN GX24Q-4 BASE HEX TTT CFL LAMP
CF42DT/E/IN/827 42 WATTS
Ballast/Driver: (1) PHILIPS ADVANCE ELECTRONIC BALLAST
ICF-2S42-90C-M2-LD

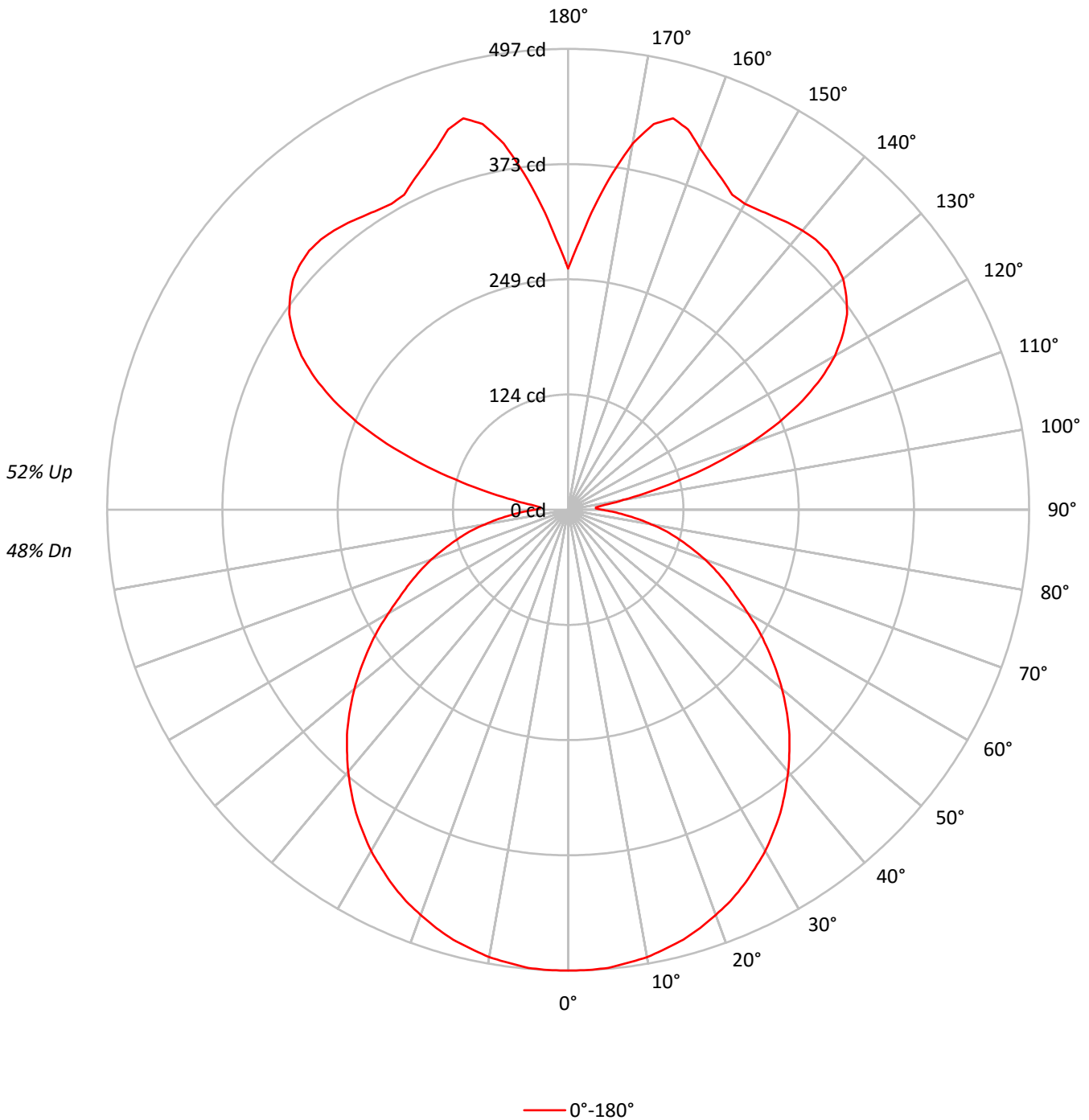
Summary

Lumens per Lamp: 3200 (2 lamps)
Luminaire Lumens: 3177.1 lumens
Efficiency: 49.6%
Efficacy: 33.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.73')
CIE Type: General Diffuse

Input Watts (W): 96.2
Input Voltage (V): NR
Input Current (A_{in}): 0.8029
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: P13104
CATALOG NUMBER: 498-RP-CFL/2/42-120V-CG

Luminous Intensity Polar Plot





TEST NUMBER: P13104

CATALOG NUMBER: 498-RP-CFL/2/42-120V-CG

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	53	53	53	53	49	49	49	49	41	41	41	34	34	34	27	27	27	24
1	48	46	44	42	44	42	40	39	35	34	33	29	28	27	23	23	22	19
2	43	40	36	34	40	36	34	31	31	29	27	25	24	22	20	19	18	16
3	40	35	31	28	36	32	29	26	27	24	22	22	20	19	18	16	15	13
4	36	31	27	23	33	28	25	22	24	21	19	20	18	16	16	14	13	11
5	33	27	23	20	30	25	21	19	21	18	16	18	15	14	14	13	11	10
6	30	24	20	17	28	23	19	16	19	16	14	16	14	12	13	11	10	8
7	28	22	18	15	26	20	17	14	17	14	12	14	12	11	12	10	9	7
8	26	20	16	13	24	18	15	13	16	13	11	13	11	9	11	9	8	7
9	24	18	14	12	22	17	13	11	14	12	10	12	10	8	10	8	7	6
10	23	17	13	11	21	15	12	10	13	11	9	11	9	8	9	8	6	5

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	13576
5°	12201
10°	11040
15°	10046
20°	9151
25°	8362
30°	7631
35°	6938
40°	6266
45°	5634
50°	4993
55°	4361
60°	3742
65°	3206
70°	2725
75°	2221
80°	1697
85°	1177



TEST NUMBER: P13104

CATALOG NUMBER: 498-RP-CFL/2/42-120V-CG

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	47.1	1.5	0.7
10°-20°	135.4	4.3	2.1
20°-30°	206.0	6.5	3.2
30°-40°	249.3	7.8	3.9
40°-50°	259.5	8.2	4.1
50°-60°	235.2	7.4	3.7
60°-70°	187.6	5.9	2.9
70°-80°	131.2	4.1	2.0
80°-90°	66.9	2.1	1.0
90°-100°	40.3	1.3	0.6
100°-110°	136.2	4.3	2.1
110°-120°	272.9	8.6	4.3
120°-130°	326.0	10.3	5.1
130°-140°	304.3	9.6	4.8
140°-150°	243.0	7.6	3.8
150°-160°	182.0	5.7	2.8
160°-170°	120.7	3.8	1.9
170°-180°	33.6	1.1	0.5
0°-30°	388.5	12.2	6.1
0°-40°	637.9	20.1	10.0
0°-60°	1132.5	35.6	17.7
0°-90°	1518.2	47.8	23.7
90°-120°	449.4	14.1	7.0
90°-150°	1322.7	41.6	20.7
90°-180°	1659.0	52.2	25.9
0°-180°	3177.1	100.0	49.6

CANDELA DISTRIBUTION:

0°	Flux
0°	497
5°	496
15°	480
25°	447
35°	399
45°	337
55°	263
65°	189
75°	124
85°	60
90°	36
95°	30
105°	126
115°	279
125°	367
135°	395
145°	386
155°	393
165°	437
175°	329
180°	260



TEST NUMBER: P13104

CATALOG NUMBER: 498-RP-CFL/2/42-120V-CG

CANDELA DISTRIBUTION (FULL):

	0°
0°	497
2.5°	497
5°	496
7.5°	493
10°	490
12.5°	485
15°	480
17.5°	473
20°	465
22.5°	457
25°	447
27.5°	436
30°	425
32.5°	412
35°	399
37.5°	384
40°	369
42.5°	353
45°	337
47.5°	319
50°	301
52.5°	282
55°	263
57.5°	244
60°	224
62.5°	205
65°	189
67.5°	173
70°	157
72.5°	140
75°	124
77.5°	109
80°	91
82.5°	75
85°	60
87.5°	47
90°	36
92.5°	30
95°	30
97.5°	40
100°	60
102.5°	90
105°	126
107.5°	167
110°	208



TEST NUMBER: P13104

CATALOG NUMBER: 498-RP-CFL/2/42-120V-CG

CANDELA DISTRIBUTION (continued):

	0°
112.5°	246
115°	279
117.5°	308
120°	332
122.5°	351
125°	367
127.5°	378
130°	387
132.5°	392
135°	395
137.5°	395
140°	393
142.5°	390
145°	386
147.5°	383
150°	381
152.5°	383
155°	393
157.5°	403
160°	415
162.5°	430
165°	437
167.5°	426
170°	401
172.5°	366
175°	329
177.5°	291
180°	260

(END OF REPORT)