

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: P13084

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-66-11  
Report Number: P13084  
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-WG  
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 WHITE 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

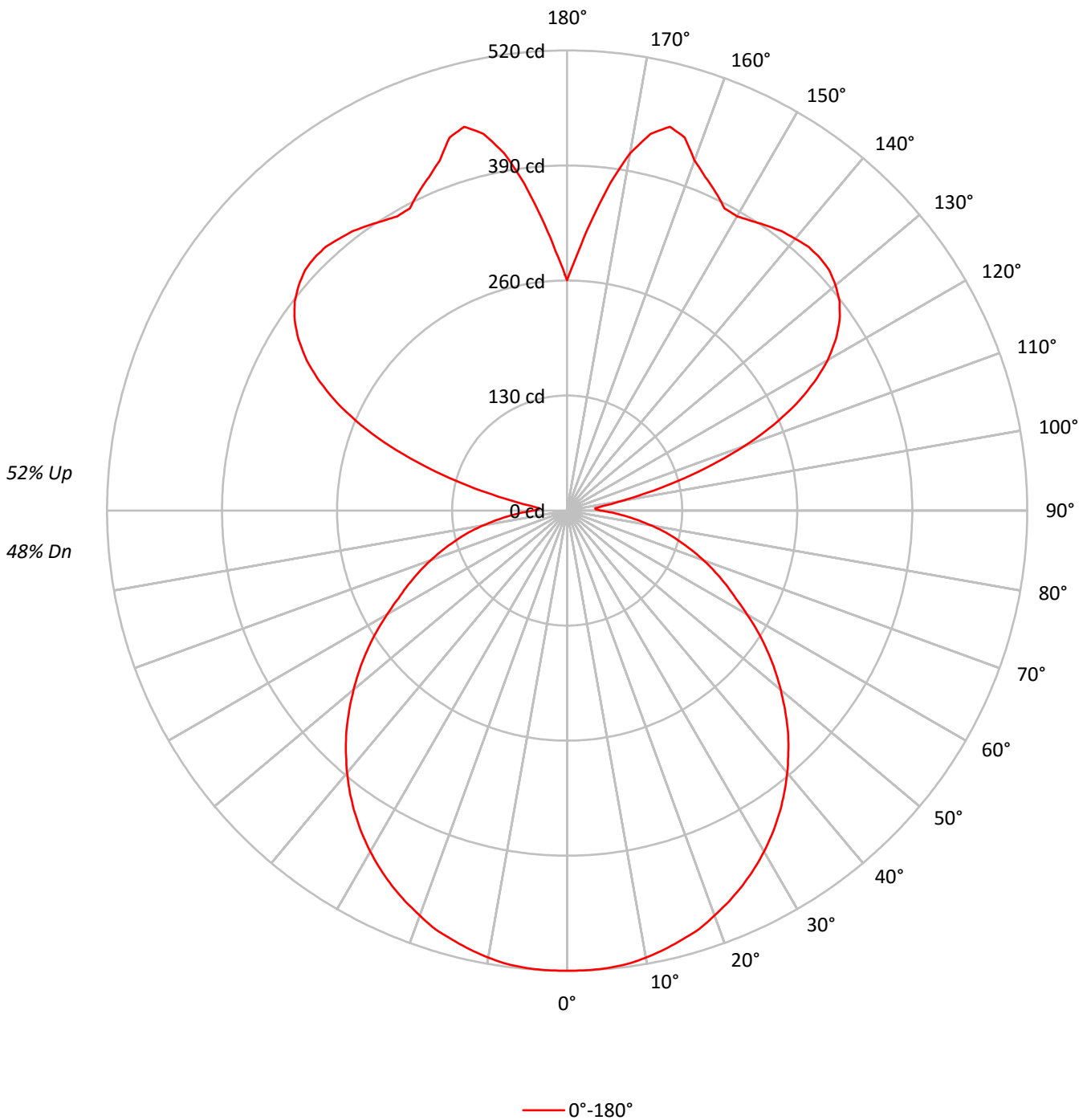
**Summary**

Lumens per Lamp: 3200 (2 lamps)  
Luminaire Lumens: 3287.4 lumens  
Efficiency: 51.4%  
Efficacy: 36.4 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): 90.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 0.752  
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	55	55	55	55	50	50	50	50	42	42	42	35	35	35	28	28	28	25
1	50	47	45	43	46	44	42	40	37	35	34	30	29	28	24	24	23	20
2	45	41	38	35	41	38	35	33	32	30	28	26	25	23	21	20	19	17
3	41	36	32	29	38	33	30	27	28	25	23	23	21	20	19	17	16	14
4	37	32	28	24	34	29	26	23	25	22	20	20	18	17	16	15	14	12
5	34	28	24	21	31	26	22	19	22	19	17	18	16	14	15	13	12	10
6	32	25	21	18	29	23	20	17	20	17	15	16	14	12	13	12	10	9
7	29	23	19	16	27	21	17	15	18	15	13	15	13	11	12	10	9	8
8	27	21	17	14	25	19	15	13	16	13	11	14	11	10	11	9	8	7
9	25	19	15	12	23	17	14	12	15	12	10	13	10	9	10	9	7	6
10	23	17	13	11	22	16	13	10	14	11	9	12	9	8	10	8	7	6

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	14204
5°	12767
10°	11558
15°	10506
20°	9584
25°	8754
30°	7990
35°	7268
40°	6572
45°	5901
50°	5225
55°	4577
60°	3926
65°	3358
70°	2847
75°	2329
80°	1791
85°	1255



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	49.4	1.5	0.8
10°-20°	141.8	4.3	2.2
20°-30°	215.7	6.6	3.4
30°-40°	261.4	8.0	4.1
40°-50°	271.8	8.3	4.2
50°-60°	246.7	7.5	3.9
60°-70°	196.5	6.0	3.1
70°-80°	137.5	4.2	2.1
80°-90°	70.8	2.2	1.1
90°-100°	42.5	1.3	0.7
100°-110°	139.7	4.2	2.2
110°-120°	279.5	8.5	4.4
120°-130°	334.2	10.2	5.2
130°-140°	311.4	9.5	4.9
140°-150°	247.0	7.5	3.9
150°-160°	183.7	5.6	2.9
160°-170°	123.7	3.8	1.9
170°-180°	34.1	1.0	0.5
0°-30°	406.9	12.4	6.4
0°-40°	668.3	20.3	10.4
0°-60°	1186.8	36.1	18.5
0°-90°	1591.7	48.4	24.9
90°-120°	461.7	14.0	7.2
90°-150°	1354.3	41.2	21.2
90°-180°	1696.0	51.6	26.5
0°-180°	3287.4	100.0	51.4

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	520	
5°	519	49
15°	502	142
25°	468	216
35°	418	261
45°	353	272
55°	276	247
65°	198	196
75°	130	138
85°	64	59
90°	38	22
95°	32	33
105°	130	140
115°	286	279
125°	376	334
135°	404	311
145°	393	247
155°	397	184
165°	449	124
175°	332	34
180°	260	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	520
2.5°	520
5°	519
7.5°	517
10°	513
12.5°	508
15°	502
17.5°	496
20°	487
22.5°	478
25°	468
27.5°	457
30°	445
32.5°	432
35°	418
37.5°	403
40°	387
42.5°	370
45°	353
47.5°	334
50°	315
52.5°	296
55°	276
57.5°	256
60°	235
62.5°	215
65°	198
67.5°	181
70°	164
72.5°	147
75°	130
77.5°	114
80°	96
82.5°	79
85°	64
87.5°	50
90°	38
92.5°	32
95°	32
97.5°	42
100°	62
102.5°	92
105°	130
107.5°	171
110°	213



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	252
115°	286
117.5°	315
120°	340
122.5°	360
125°	376
127.5°	388
130°	396
132.5°	402
135°	404
137.5°	404
140°	401
142.5°	398
145°	393
147.5°	388
150°	384
152.5°	385
155°	397
157.5°	408
160°	421
162.5°	442
165°	449
167.5°	436
170°	410
172.5°	373
175°	332
177.5°	293
180°	260

(END OF REPORT)