

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: P13086

Luminaire Tested: **498-RP-CFL/2/26-120V-WG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-66-11  
Report Number: P13086  
Test Lab: PEACHTREE CITY  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: SHAPER  
Catalog Number: 498-RP-CFL/2/26-120V-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-3 BASE HEX TTT CFL LAMP  
CF26DT/E/IN/841 26 WATTS  
Ballast/Driver: (1) PHILIPS ADVANCE ELECTRONIC BALLAST  
ICF-2S42-90C-M2-LD

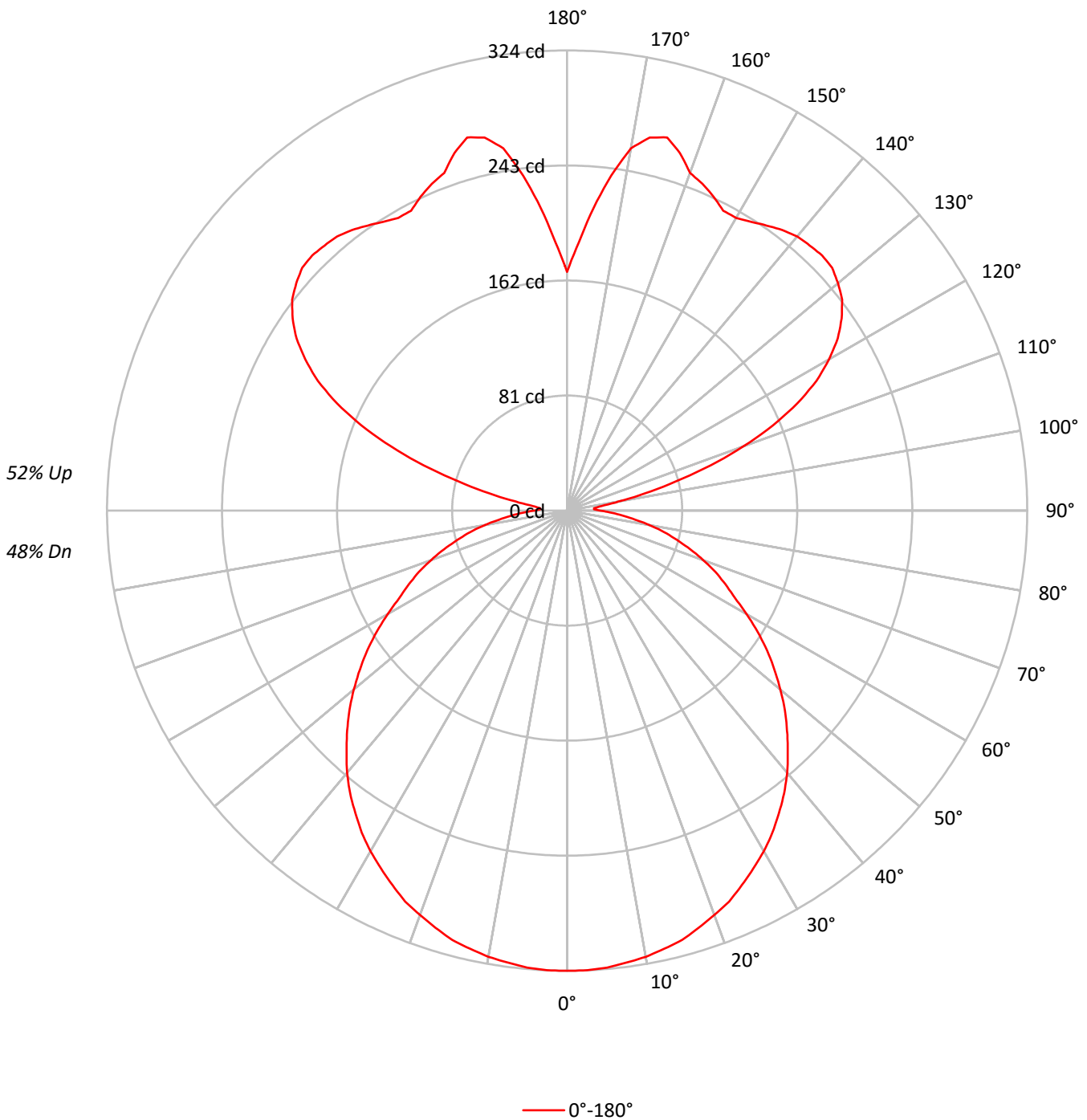
**Summary**

Lumens per Lamp: 1800 (2 lamps)  
Luminaire Lumens: 2043.1 lumens  
Efficiency: 56.8%  
Efficacy: 36.9 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38  
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.73')  
CIE Type: General Diffuse

Input Watts (W): 55.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 0.46116  
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	61	61	61	61	56	56	56	56	47	47	47	39	39	39	31	31	31	27
1	55	52	50	48	50	48	46	44	40	39	38	33	32	31	27	26	25	22
2	50	45	42	39	46	42	39	36	35	33	31	29	27	26	23	22	21	18
3	45	40	35	32	41	37	33	30	31	28	26	25	23	22	20	19	18	15
4	41	35	30	27	38	32	28	25	27	24	22	23	20	18	18	17	15	13
5	38	31	26	23	35	29	25	21	24	21	19	20	18	16	16	15	13	11
6	35	28	23	20	32	26	22	19	22	19	16	18	16	14	15	13	11	10
7	32	25	21	17	30	23	19	16	20	17	14	17	14	12	13	12	10	9
8	30	23	18	15	27	21	17	14	18	15	13	15	13	11	12	10	9	8
9	28	21	16	14	26	19	15	13	17	13	11	14	11	10	11	10	8	7
10	26	19	15	12	24	18	14	11	15	12	10	13	10	9	11	9	7	6

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

	0°
0°	8850
5°	7945
10°	7187
15°	6551
20°	5963
25°	5443
30°	4973
35°	4521
40°	4093
45°	3661
50°	3251
55°	2852
60°	2439
65°	2086
70°	1770
75°	1433
80°	1101
85°	765



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	30.7	1.5	0.9
10°-20°	88.2	4.3	2.5
20°-30°	134.2	6.6	3.7
30°-40°	162.7	8.0	4.5
40°-50°	169.0	8.3	4.7
50°-60°	153.4	7.5	4.3
60°-70°	122.1	6.0	3.4
70°-80°	84.9	4.2	2.4
80°-90°	43.0	2.1	1.2
90°-100°	25.1	1.2	0.7
100°-110°	85.7	4.2	2.4
110°-120°	174.8	8.6	4.9
120°-130°	209.9	10.3	5.8
130°-140°	195.6	9.6	5.4
140°-150°	154.1	7.5	4.3
150°-160°	112.8	5.5	3.1
160°-170°	75.1	3.7	2.1
170°-180°	21.8	1.1	0.6
0°-30°	253.1	12.4	7.0
0°-40°	415.9	20.4	11.6
0°-60°	738.3	36.1	20.5
0°-90°	988.3	48.4	27.5
90°-120°	285.6	14.0	7.9
90°-150°	845.2	41.4	23.5
90°-180°	1055.0	51.6	29.3
0°-180°	2043.1	100.0	56.8

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	324	
5°	323	31
15°	313	88
25°	291	134
35°	260	163
45°	219	169
55°	172	153
65°	123	122
75°	80	85
85°	39	36
90°	23	13
95°	19	19
105°	79	86
115°	179	175
125°	236	210
135°	254	196
145°	245	154
155°	244	113
165°	272	75
175°	214	22
180°	168	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	324
2.5°	324
5°	323
7.5°	321
10°	319
12.5°	316
15°	313
17.5°	308
20°	303
22.5°	298
25°	291
27.5°	284
30°	277
32.5°	269
35°	260
37.5°	251
40°	241
42.5°	230
45°	219
47.5°	208
50°	196
52.5°	184
55°	172
57.5°	159
60°	146
62.5°	133
65°	123
67.5°	113
70°	102
72.5°	91
75°	80
77.5°	70
80°	59
82.5°	48
85°	39
87.5°	30
90°	23
92.5°	19
95°	19
97.5°	24
100°	37
102.5°	56
105°	79
107.5°	106
110°	132



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	157
115°	179
117.5°	198
120°	213
122.5°	226
125°	236
127.5°	244
130°	249
132.5°	253
135°	254
137.5°	253
140°	252
142.5°	249
145°	245
147.5°	241
150°	238
152.5°	238
155°	244
157.5°	249
160°	253
162.5°	264
165°	272
167.5°	269
170°	259
172.5°	238
175°	214
177.5°	189
180°	168

(END OF REPORT)