

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: P13085

Luminaire Tested: **498-RP-CFL/2/32-120V-WG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: P13085
Test Lab: PEACHTREE CITY
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 498-RP-CFL/2/32-120V-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
CF32DT/E/IN/827 32 WATTS
Ballast/Driver: (1) PHILIPS ADVANCE ELECTRONIC BALLAST
ICF-2S42-90C-M2-LD

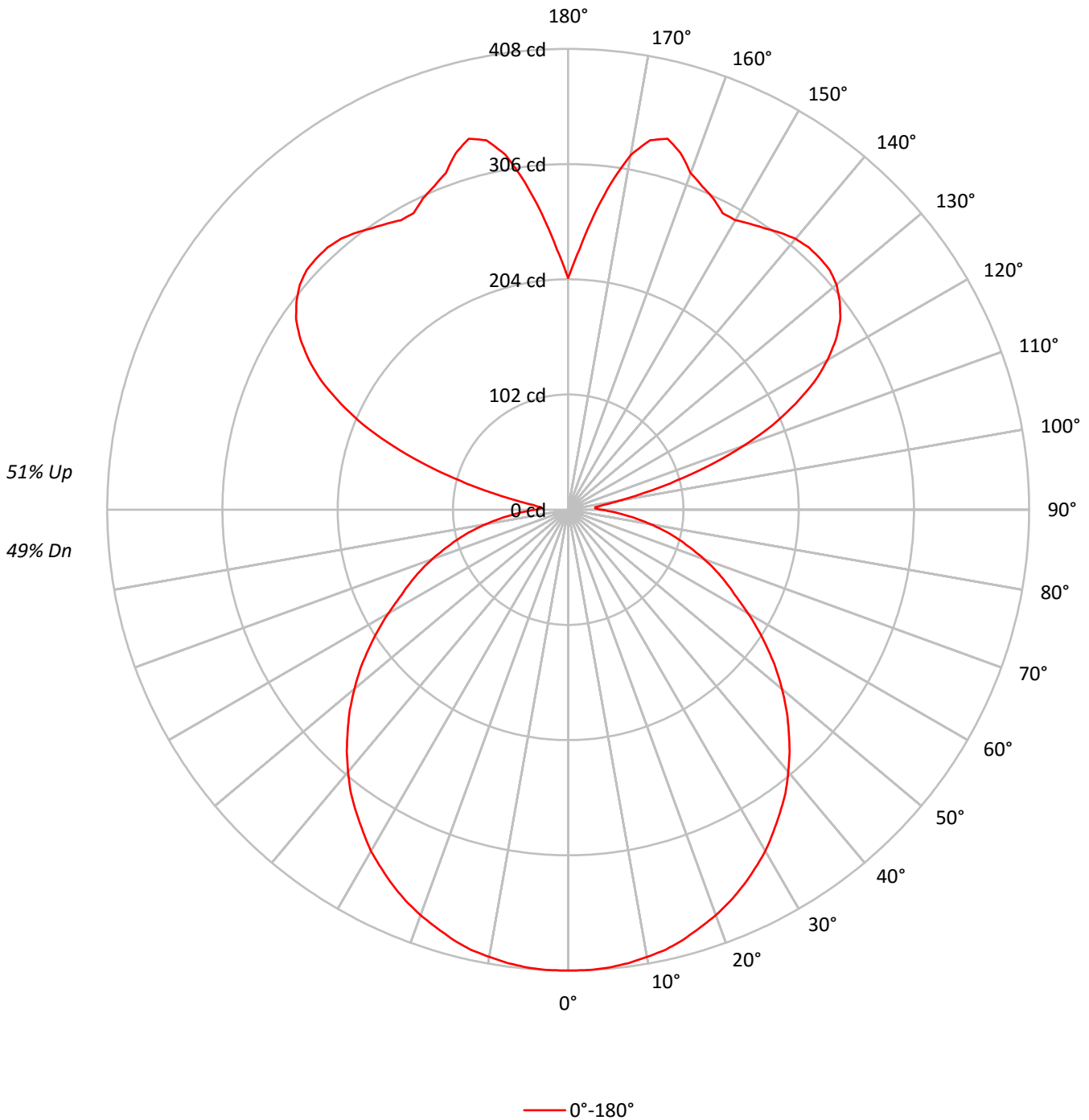
Summary

Lumens per Lamp: 2400 (2 lamps)
Luminaire Lumens: 2557.3 lumens
Efficiency: 53.3%
Efficacy: 37.4 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): 68.3
Input Voltage (V): NR
Input Current (A_{in}): 0.5697
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	57	57	57	57	52	52	52	52	44	44	44	36	36	36	29	29	29	26
1	52	49	47	45	47	45	43	42	38	37	35	31	30	29	25	25	24	21
2	47	43	39	36	43	39	36	34	33	31	29	27	26	24	22	21	20	17
3	43	37	33	30	39	34	31	28	29	26	24	24	22	20	19	18	17	14
4	39	33	29	25	36	30	27	24	26	23	20	21	19	17	17	16	14	12
5	36	29	25	22	33	27	23	20	23	20	18	19	17	15	15	14	12	11
6	33	26	22	19	30	24	20	17	21	18	15	17	15	13	14	12	11	9
7	30	24	19	16	28	22	18	15	19	16	13	16	13	11	13	11	10	8
8	28	21	17	14	26	20	16	13	17	14	12	14	12	10	12	10	9	7
9	26	20	15	13	24	18	14	12	16	13	11	13	11	9	11	9	8	7
10	24	18	14	11	22	17	13	11	14	11	9	12	10	8	10	8	7	6

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	11145
5°	10012
10°	9057
15°	8246
20°	7518
25°	6865
30°	6266
35°	5686
40°	5145
45°	4614
50°	4097
55°	3582
60°	3074
65°	2629
70°	2222
75°	1809
80°	1380
85°	961



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	38.7	1.5	0.8
10°-20°	111.2	4.3	2.3
20°-30°	169.1	6.6	3.5
30°-40°	204.7	8.0	4.3
40°-50°	213.0	8.3	4.4
50°-60°	193.1	7.6	4.0
60°-70°	153.8	6.0	3.2
70°-80°	106.6	4.2	2.2
80°-90°	54.4	2.1	1.1
90°-100°	31.8	1.2	0.7
100°-110°	107.0	4.2	2.2
110°-120°	217.5	8.5	4.5
120°-130°	261.0	10.2	5.4
130°-140°	243.1	9.5	5.1
140°-150°	191.4	7.5	4.0
150°-160°	140.4	5.5	2.9
160°-170°	93.8	3.7	2.0
170°-180°	26.7	1.0	0.6
0°-30°	319.0	12.5	6.6
0°-40°	523.7	20.5	10.9
0°-60°	929.8	36.4	19.4
0°-90°	1244.6	48.7	25.9
90°-120°	356.3	13.9	7.4
90°-150°	1051.8	41.1	21.9
90°-180°	1313.0	51.3	27.4
0°-180°	2557.3	100.0	53.3

CANDELA DISTRIBUTION:

	0°	Flux
0°	408	
5°	407	39
15°	394	111
25°	367	169
35°	327	205
45°	276	213
55°	216	193
65°	155	154
75°	101	107
85°	49	45
90°	29	16
95°	24	24
105°	99	107
115°	222	217
125°	294	261
135°	315	243
145°	304	191
155°	304	140
165°	340	94
175°	262	27
180°	205	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	408
2.5°	408
5°	407
7.5°	405
10°	402
12.5°	399
15°	394
17.5°	388
20°	382
22.5°	375
25°	367
27.5°	358
30°	349
32.5°	338
35°	327
37.5°	316
40°	303
42.5°	290
45°	276
47.5°	262
50°	247
52.5°	232
55°	216
57.5°	200
60°	184
62.5°	168
65°	155
67.5°	142
70°	128
72.5°	114
75°	101
77.5°	88
80°	74
82.5°	61
85°	49
87.5°	38
90°	29
92.5°	24
95°	24
97.5°	31
100°	46
102.5°	70
105°	99
107.5°	132
110°	165

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	196
115°	222
117.5°	246
120°	265
122.5°	281
125°	294
127.5°	303
130°	310
132.5°	314
135°	315
137.5°	315
140°	313
142.5°	309
145°	304
147.5°	300
150°	296
152.5°	296
155°	304
157.5°	310
160°	317
162.5°	331
165°	340
167.5°	335
170°	319
172.5°	292
175°	262
177.5°	231
180°	205

(END OF REPORT)