

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: P13105

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: P13105
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-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-3 BASE HEX TTT CFL LAMP
CF32DT/E/IN/827 32 WATTS
Ballast/Driver: (1) PHILIPS ADVANCE ELECTRONIC BALLAST
ICF-2S42-90C-M2-LD

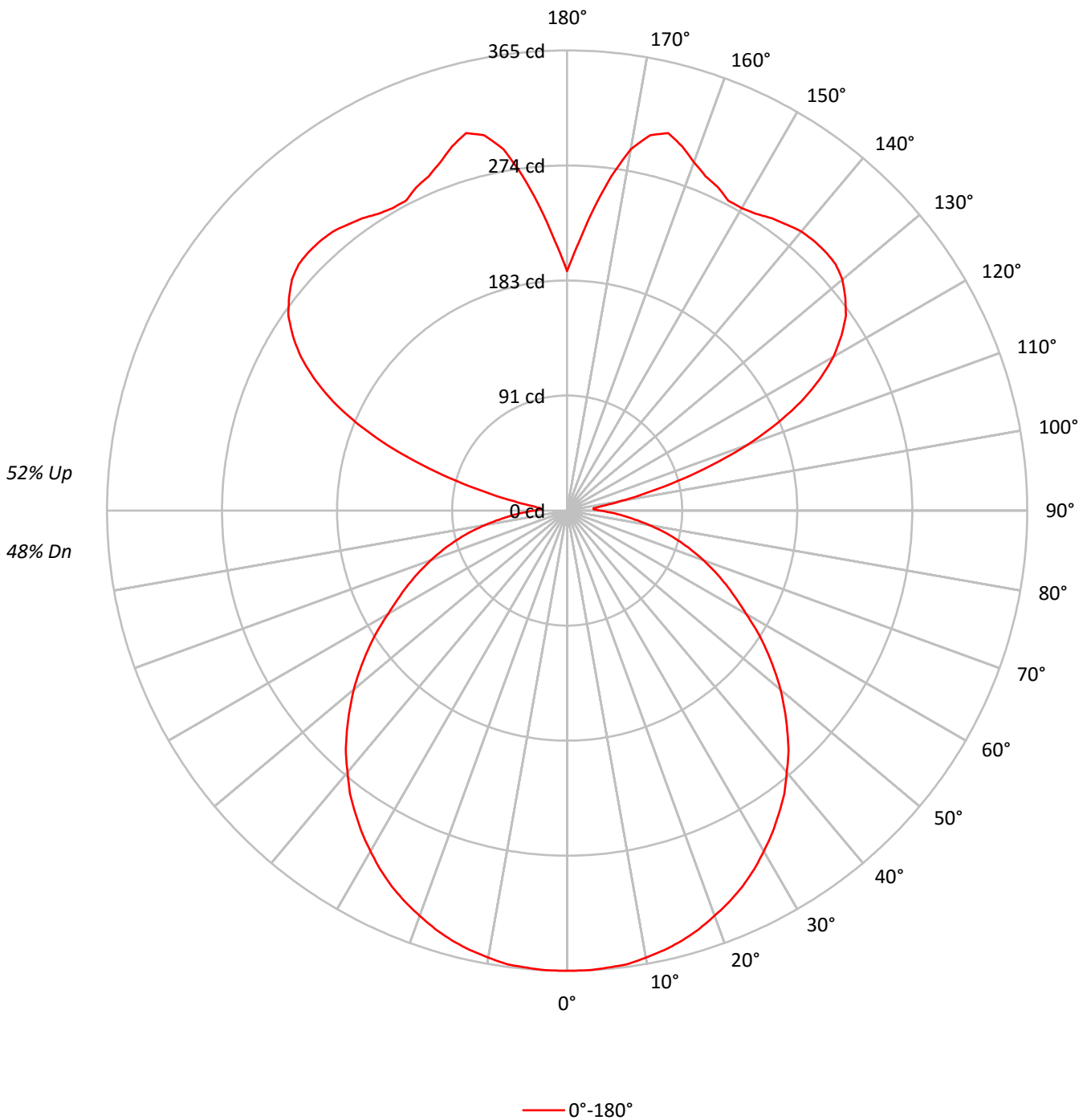
Summary

Lumens per Lamp: 2400 (2 lamps)
Luminaire Lumens: 2323.8 lumens
Efficiency: 48.4%
Efficacy: 34.5 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): 67.4
Input Voltage (V): NR
Input Current (A_{in}): 0.56336
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	52	52	52	52	48	48	48	48	40	40	40	33	33	33	26	26	26	23
1	47	45	43	41	43	41	39	38	34	33	32	28	27	27	23	22	21	19
2	42	39	36	33	39	36	33	31	30	28	26	25	23	22	20	19	18	15
3	39	34	30	27	35	31	28	25	26	24	22	22	20	18	17	16	15	13
4	35	30	26	23	32	28	24	21	23	21	18	19	17	16	15	14	13	11
5	32	27	23	20	30	25	21	18	21	18	16	17	15	13	14	12	11	9
6	30	24	20	17	27	22	18	16	19	16	14	15	13	12	13	11	10	8
7	27	21	17	15	25	20	16	14	17	14	12	14	12	10	11	10	9	7
8	25	19	16	13	23	18	15	12	15	13	11	13	11	9	10	9	8	6
9	24	18	14	12	22	16	13	11	14	11	10	12	10	8	10	8	7	6
10	22	16	13	10	20	15	12	10	13	10	9	11	9	7	9	7	6	5

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	9970
5°	8954
10°	8111
15°	7388
20°	6731
25°	6154
30°	5602
35°	5095
40°	4602
45°	4129
50°	3666
55°	3200
60°	2740
65°	2358
70°	1996
75°	1630
80°	1231
85°	863



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	34.6	1.5	0.7
10°-20°	99.6	4.3	2.1
20°-30°	151.5	6.5	3.2
30°-40°	183.3	7.9	3.8
40°-50°	190.6	8.2	4.0
50°-60°	172.6	7.4	3.6
60°-70°	137.8	5.9	2.9
70°-80°	95.9	4.1	2.0
80°-90°	48.5	2.1	1.0
90°-100°	28.5	1.2	0.6
100°-110°	98.4	4.2	2.0
110°-120°	200.2	8.6	4.2
120°-130°	239.8	10.3	5.0
130°-140°	223.8	9.6	4.7
140°-150°	177.8	7.7	3.7
150°-160°	130.8	5.6	2.7
160°-170°	85.8	3.7	1.8
170°-180°	24.5	1.1	0.5
0°-30°	285.8	12.3	6.0
0°-40°	469.1	20.2	9.8
0°-60°	832.2	35.8	17.3
0°-90°	1114.4	48.0	23.2
90°-120°	327.0	14.1	6.8
90°-150°	968.3	41.7	20.2
90°-180°	1209.0	52.0	25.2
0°-180°	2323.8	100.0	48.4

CANDELA DISTRIBUTION:

	0°	Flux
0°	365	
5°	364	35
15°	353	100
25°	329	152
35°	293	183
45°	247	191
55°	193	173
65°	139	138
75°	91	96
85°	44	40
90°	26	15
95°	21	22
105°	91	98
115°	205	200
125°	270	240
135°	290	224
145°	283	178
155°	283	131
165°	310	86
175°	240	24
180°	190	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	365
2.5°	365
5°	364
7.5°	363
10°	360
12.5°	357
15°	353
17.5°	348
20°	342
22.5°	336
25°	329
27.5°	321
30°	312
32.5°	303
35°	293
37.5°	283
40°	271
42.5°	260
45°	247
47.5°	234
50°	221
52.5°	207
55°	193
57.5°	179
60°	164
62.5°	151
65°	139
67.5°	127
70°	115
72.5°	103
75°	91
77.5°	79
80°	66
82.5°	54
85°	44
87.5°	34
90°	26
92.5°	21
95°	21
97.5°	28
100°	43
102.5°	64
105°	91
107.5°	121
110°	152



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	180
115°	205
117.5°	226
120°	244
122.5°	258
125°	270
127.5°	278
130°	285
132.5°	289
135°	290
137.5°	290
140°	289
142.5°	286
145°	283
147.5°	279
150°	277
152.5°	277
155°	283
157.5°	287
160°	294
162.5°	303
165°	310
167.5°	305
170°	291
172.5°	267
175°	240
177.5°	213
180°	190

(END OF REPORT)