

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: ITL41800

Luminaire Tested: **404-36-CF4-27**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: ITL41800
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 404-36-CF4-27
Description: LUMINOUS BOWL PENDANT
Light Source: 4-F27TT 7000 LUMENS
Ballast/Driver: -

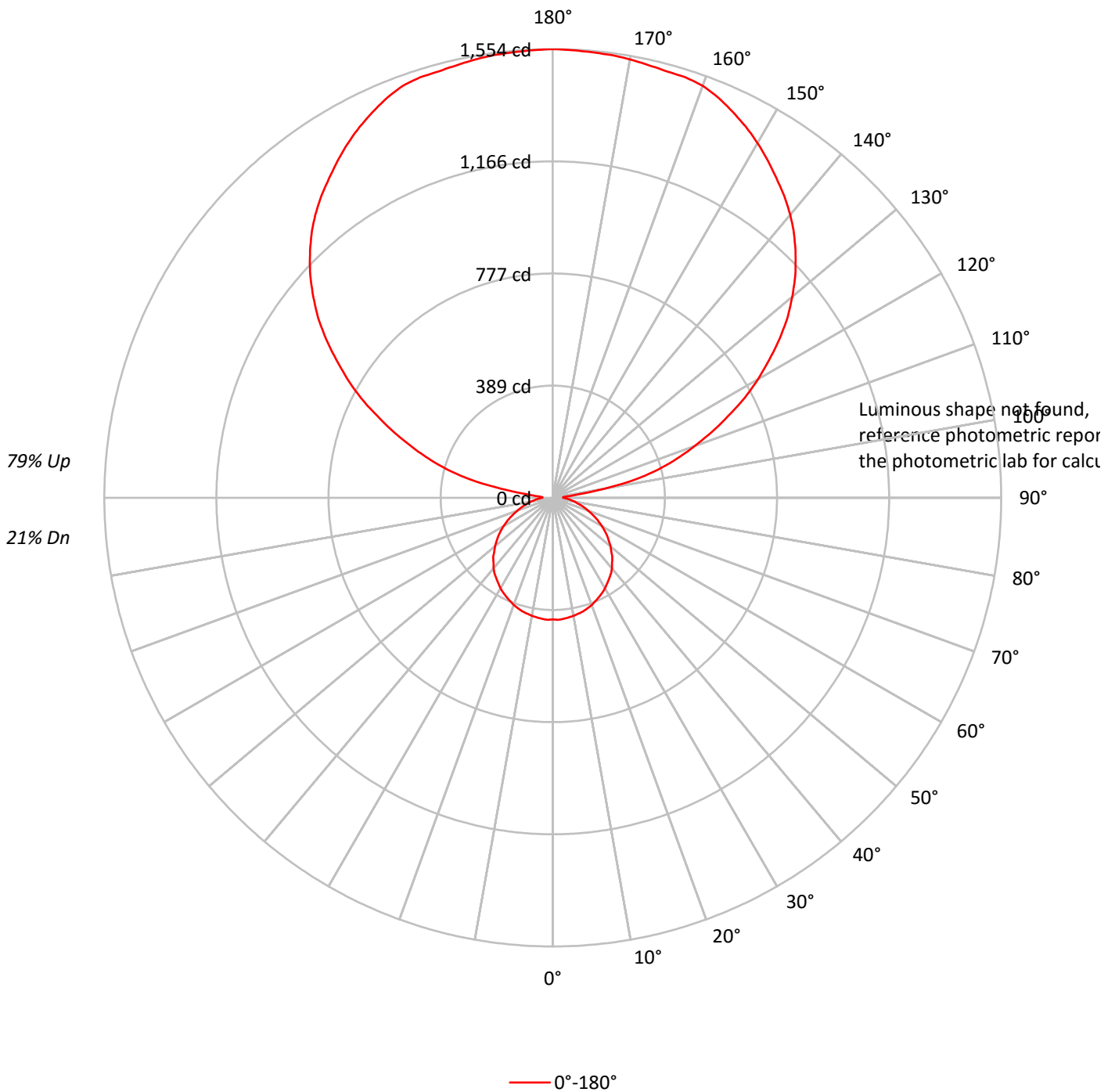
Summary

Lumens per Lamp: 1800 (4 lamps)
Luminaire Lumens: 6313.9 lumens
Efficiency: 87.7%
Efficacy: 73.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.4
Luminous Opening: (L: 0' x W: -3' x H: 0.56'
CIE Type: Semi-Indirect

Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
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



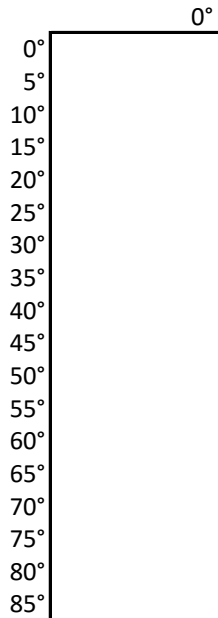


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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	88	88	88	88	78	78	78	78	59	59	59		41	41	41		26	26	26	18
1	80	76	73	70	70	67	64	62	51	49	47		36	35	34		22	22	21	15
2	72	66	61	56	64	59	54	50	44	41	39		31	30	28		19	18	17	12
3	66	58	52	47	58	51	46	42	39	35	33		28	25	23		17	16	15	10
4	60	51	44	39	53	45	40	35	34	31	27		24	22	20		15	14	13	9
5	55	45	38	33	48	40	34	30	31	27	23		22	19	17		13	12	11	7
6	51	40	34	29	44	36	30	26	27	23	20		20	17	15		12	11	9	6
7	47	36	30	25	41	32	27	22	25	21	18		18	15	13		11	9	8	6
8	43	33	26	22	38	29	24	20	22	18	15		16	13	11		10	9	7	5
9	40	30	23	19	35	27	21	17	20	16	14		15	12	10		9	8	7	5
10	37	27	21	17	33	24	19	15	19	15	12		13	11	9		9	7	6	4

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	40.0	0.6	0.6
10°-20°	114.8	1.8	1.6
20°-30°	174.9	2.8	2.4
30°-40°	213.6	3.4	3.0
40°-50°	224.2	3.6	3.1
50°-60°	205.4	3.3	2.9
60°-70°	162.1	2.6	2.3
70°-80°	108.2	1.7	1.5
80°-90°	60.8	1.0	0.8
90°-100°	73.5	1.2	1.0
100°-110°	389.0	6.2	5.4
110°-120°	665.5	10.5	9.2
120°-130°	855.6	13.6	11.9
130°-140°	917.5	14.5	12.7
140°-150°	847.1	13.4	11.8
150°-160°	680.6	10.8	9.5
160°-170°	433.5	6.9	6.0
170°-180°	147.7	2.3	2.1
0°-30°	329.7	5.2	4.6
0°-40°	543.3	8.6	7.5
0°-60°	972.9	15.4	13.5
0°-90°	1304.0	20.7	18.1
90°-120°	1127.9	17.9	15.7
90°-150°	3748.1	59.4	52.1
90°-180°	5010.0	79.3	69.6
0°-180°	6313.9	100.0	87.7

CANDELA DISTRIBUTION:

	0°	Flux
0°	421	
5°	421	40
15°	407	115
25°	379	175
35°	341	214
45°	292	224
55°	230	205
65°	164	162
75°	102	108
85°	56	50
90°	37	21
95°	41	64
105°	377	389
115°	671	666
125°	959	856
135°	1190	917
145°	1351	847
155°	1475	681
165°	1529	434
175°	1549	148
180°	1554	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	421
2.5°	423
5°	421
7.5°	418
10°	415
12.5°	411
15°	407
17.5°	401
20°	395
22.5°	387
25°	379
27.5°	371
30°	362
32.5°	351
35°	341
37.5°	331
40°	319
42.5°	304
45°	292
47.5°	275
50°	261
52.5°	245
55°	230
57.5°	214
60°	197
62.5°	180
65°	164
67.5°	147
70°	131
72.5°	116
75°	102
77.5°	88
80°	77
82.5°	65
85°	56
87.5°	45
90°	37
92.5°	35
95°	41
97.5°	85
100°	181
102.5°	295
105°	377
107.5°	452
110°	522



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	597
115°	671
117.5°	750
120°	821
122.5°	889
125°	959
127.5°	1025
130°	1083
132.5°	1140
135°	1190
137.5°	1238
140°	1280
142.5°	1318
145°	1351
147.5°	1386
150°	1419
152.5°	1449
155°	1475
157.5°	1500
160°	1519
162.5°	1527
165°	1529
167.5°	1535
170°	1542
172.5°	1547
175°	1549
177.5°	1552
180°	1554

(END OF REPORT)