

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: 253P302

Luminaire Tested: **507-CFL/1/18-120V**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 253P302
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 507-CFL/1/18-120V
Description: SHAPER CLASSIC WALL LUMINAIRE GLASS SCONCE
Light Source: ONE - CF18TTT/E/IN841 - 1200 LUMENS - 18 WATTS
PRORATED FROM 42W at 3200LMS - TEST NO 253P302
Ballast/Driver: -

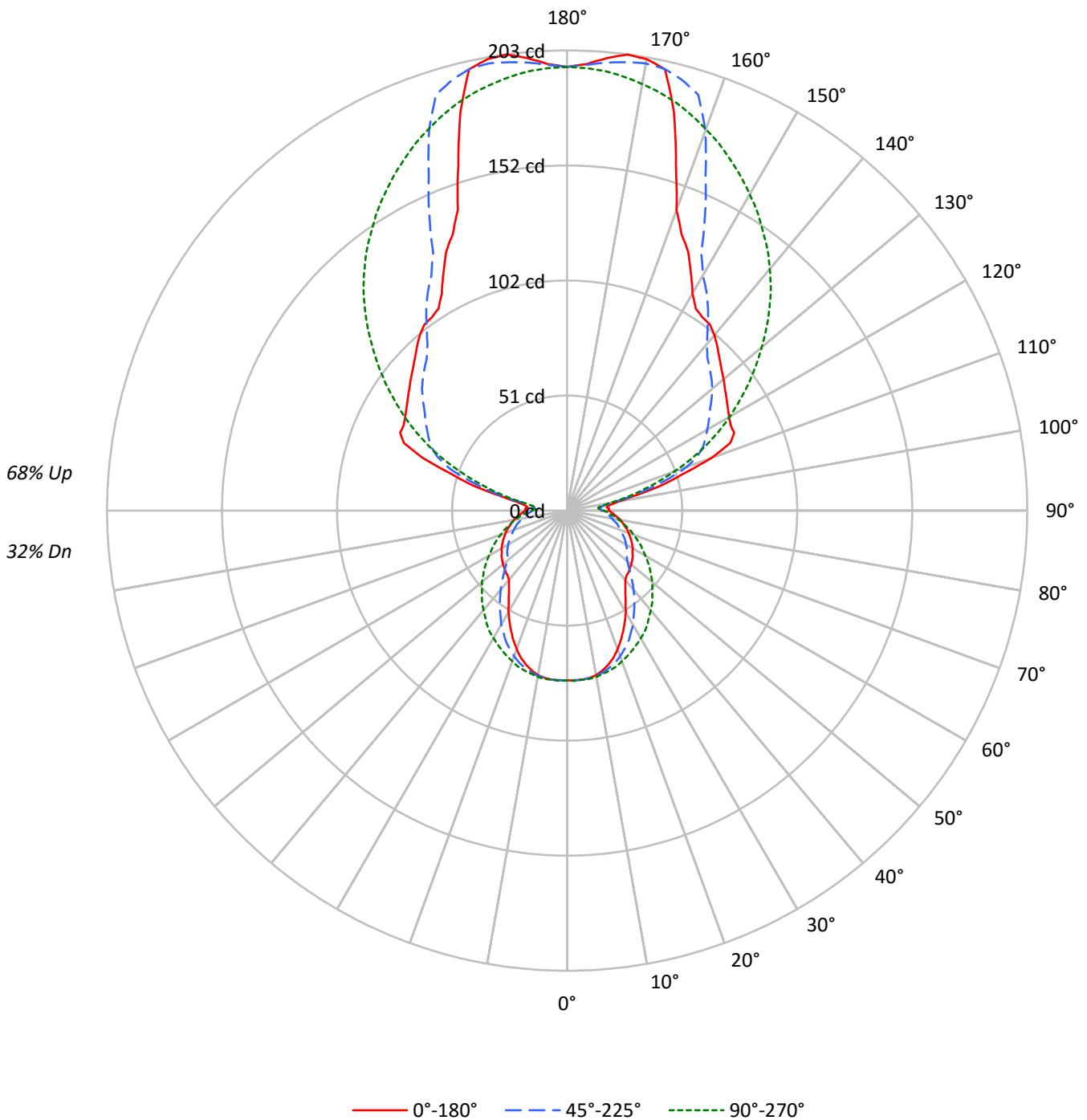
Summary

Lumens per Lamp: 1200 (1 lamp)
Luminaire Lumens: 722.7 lumens
Efficiency: 60.2%
Efficacy: 40.2 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.29 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 1.12' x L: 0.71' x H: 0.42')
CIE Type: Semi-Indirect

Input Watts (W): 18
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

TEST NUMBER: 253P302
CATALOG NUMBER: 507-CFL/1/18-120V

Luminous Intensity Polar Plot





TEST NUMBER: 253P302

CATALOG NUMBER: 507-CFL/1/18-120V

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	62	62	62	62	56	56	56	56	44	44	44	34	34	34	24	24	24	19
1	56	53	50	48	50	48	45	43	38	36	35	28	27	26	20	19	19	15
2	51	46	42	39	45	41	38	35	33	30	28	25	23	22	17	16	15	12
3	46	40	36	32	41	36	32	29	29	26	23	22	20	18	15	14	13	10
4	42	35	31	27	37	32	28	24	25	22	20	19	17	15	13	12	11	8
5	38	31	26	23	34	28	24	21	22	19	17	17	15	13	12	11	9	7
6	35	28	23	20	32	25	21	18	20	17	15	15	13	11	11	9	8	6
7	33	25	20	17	29	23	19	16	18	15	13	14	12	10	10	8	7	6
8	30	23	18	15	27	21	17	14	17	14	11	13	11	9	9	8	7	5
9	28	21	16	13	25	19	15	12	15	12	10	12	10	8	8	7	6	4
10	26	19	15	12	23	17	13	11	14	11	9	11	9	7	8	6	5	4

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1012	1012	1012
5°	966	959	984
10°	916	908	959
15°	849	850	929
20°	770	789	896
25°	684	723	864
30°	602	651	835
35°	523	578	807
40°	471	513	772
45°	462	450	742
50°	456	402	714
55°	452	387	685
60°	447	373	657
65°	441	361	636
70°	436	346	611
75°	428	337	592
80°	429	323	582
85°	419	317	575



TEST NUMBER: 253P302

CATALOG NUMBER: 507-CFL/1/18-120V

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	7.1	1.0	0.6
10°-20°	20.2	2.8	1.7
20°-30°	29.2	4.0	2.4
30°-40°	33.0	4.6	2.7
40°-50°	33.3	4.6	2.8
50°-60°	32.6	4.5	2.7
60°-70°	30.3	4.2	2.5
70°-80°	26.1	3.6	2.2
80°-90°	20.8	2.9	1.7
90°-100°	17.9	2.5	1.5
100°-110°	39.9	5.5	3.3
110°-120°	66.9	9.3	5.6
120°-130°	73.2	10.1	6.1
130°-140°	75.7	10.5	6.3
140°-150°	75.8	10.5	6.3
150°-160°	69.1	9.6	5.8
160°-170°	52.8	7.3	4.4
170°-180°	18.9	2.6	1.6
0°-30°	56.5	7.8	4.7
0°-40°	89.5	12.4	7.5
0°-60°	155.4	21.5	12.9
0°-90°	232.6	32.2	19.4
90°-120°	124.7	17.3	10.4
90°-150°	349.3	48.3	29.1
90°-180°	490.0	67.8	40.8
0°-180°	722.7	100.0	60.2

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	75	75	75	75	75	
5°	75	75	75	75	75	7
15°	70	71	72	73	73	20
25°	58	60	64	67	68	27
35°	45	46	52	59	62	28
45°	38	37	40	49	53	30
55°	35	34	32	39	44	32
65°	31	30	28	31	36	31
75°	26	26	23	24	27	28
85°	21	20	18	18	19	18
90°	18	18	15	15	16	10
95°	18	17	14	13	14	16
105°	43	41	38	33	34	45
115°	81	77	66	57	67	78
125°	86	83	77	74	98	77
135°	95	94	89	95	126	74
145°	104	103	108	145	150	66
155°	126	128	144	180	171	58
165°	182	189	196	193	186	50
175°	200	200	198	196	195	19
180°	196	196	196	196	196	



TEST NUMBER: 253P302

CATALOG NUMBER: 507-CFL/1/18-120V

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	74.9	74.9	74.9	74.9	74.9
2.5°	74.9	74.9	74.9	75.2	75.2
5°	74.9	74.9	74.9	74.9	74.9
7.5°	74.5	74.5	74.5	74.9	74.9
10°	73.7	73.7	74.1	74.1	74.5
12.5°	72.2	72.2	73.0	73.7	73.7
15°	70.3	70.7	71.8	73.0	73.0
17.5°	68.0	68.8	70.3	71.8	72.2
20°	65.0	66.1	68.4	70.3	70.7
22.5°	61.9	63.1	66.1	69.2	69.5
25°	58.5	59.7	63.8	67.3	68.0
27.5°	55.1	56.2	60.8	65.7	66.5
30°	51.7	53.2	58.1	63.8	65.0
32.5°	47.9	49.8	54.7	61.6	63.5
35°	44.8	46.4	51.7	59.3	61.6
37.5°	42.2	43.3	48.6	57.0	59.3
40°	39.9	40.7	45.6	54.7	57.4
42.5°	38.8	38.4	42.6	52.1	55.5
45°	38.4	37.2	39.5	49.4	53.2
47.5°	37.6	36.5	36.9	46.7	50.9
50°	36.9	35.7	34.6	44.1	49.0
52.5°	36.1	35.0	33.1	41.4	46.7
55°	35.3	34.2	32.3	39.1	44.5
57.5°	34.2	33.1	31.2	36.9	42.2
60°	33.4	32.3	30.0	35.0	39.9
62.5°	32.3	31.2	28.9	33.1	37.6
65°	31.2	30.0	27.7	31.2	35.7
67.5°	30.0	28.9	26.2	29.3	33.4
70°	28.9	27.7	25.1	27.7	31.2
72.5°	27.7	26.6	23.9	25.8	29.3
75°	26.2	25.5	22.8	24.3	27.0
77.5°	25.1	23.9	21.3	22.4	25.1
80°	23.9	22.8	20.1	20.9	23.2
82.5°	22.4	21.7	19.0	19.4	21.3
85°	20.9	20.1	17.9	17.9	19.4
87.5°	19.8	19.0	16.3	16.3	17.9
90°	18.2	17.5	15.2	14.8	16.0
92.5°	18.6	17.9	14.8	13.7	14.1
95°	17.5	16.7	14.4	13.3	13.7
97.5°	19.0	18.2	16.0	14.8	15.2
100°	22.8	22.4	20.1	18.6	19.0
102.5°	30.8	30.8	28.5	25.5	26.2
105°	43.3	41.4	37.6	33.4	33.8
107.5°	53.2	52.1	47.1	40.7	41.8
110°	67.6	64.6	55.9	47.1	50.2



TEST NUMBER: 253P302

CATALOG NUMBER: 507-CFL/1/18-120V

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	77.9	73.7	61.9	52.4	58.9
115°	81.3	76.8	66.1	57.0	67.3
117.5°	81.3	78.3	68.8	61.2	75.2
120°	82.5	80.2	71.4	65.4	82.8
122.5°	84.0	81.7	74.1	69.5	90.1
125°	85.9	83.2	76.8	74.1	97.7
127.5°	87.8	85.5	80.2	78.7	104.9
130°	90.1	88.2	83.6	84.0	112.1
132.5°	92.3	90.8	86.3	89.3	119.3
135°	95.0	94.2	88.9	95.4	126.2
137.5°	98.0	97.7	91.6	106.0	133.0
140°	101.1	100.3	95.8	117.8	139.1
142.5°	103.4	101.5	101.8	130.7	145.2
145°	104.1	103.0	108.3	145.2	150.5
147.5°	105.6	107.2	114.4	157.7	156.2
150°	110.6	114.0	119.7	168.0	161.1
152.5°	118.2	121.2	128.1	174.8	166.1
155°	126.2	127.7	144.0	179.7	170.6
157.5°	131.9	133.0	159.6	184.3	175.2
160°	141.0	150.9	178.2	187.7	179.0
162.5°	159.6	168.0	192.3	190.4	182.8
165°	182.0	188.9	196.5	192.7	186.2
167.5°	199.5	200.3	199.5	194.2	188.9
170°	202.2	202.5	200.3	194.9	191.1
172.5°	202.9	202.5	199.5	195.3	193.0
175°	200.3	200.3	198.4	195.7	194.6
177.5°	197.2	197.6	196.8	195.7	195.3
180°	195.7	195.7	195.7	195.7	195.7

(END OF REPORT)