

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/1/32-120V**

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/1/32-120V
Description: SHAPER CLASSIC WALL LUMINAIRE GLASS SCONCE
Light Source: ONE - CF32TTT/E/IN841 - 2400 LUMENS - 32 WATTS
PRORATED FROM 42W at 3200LMS - TEST NO 253P302
Ballast/Driver: -

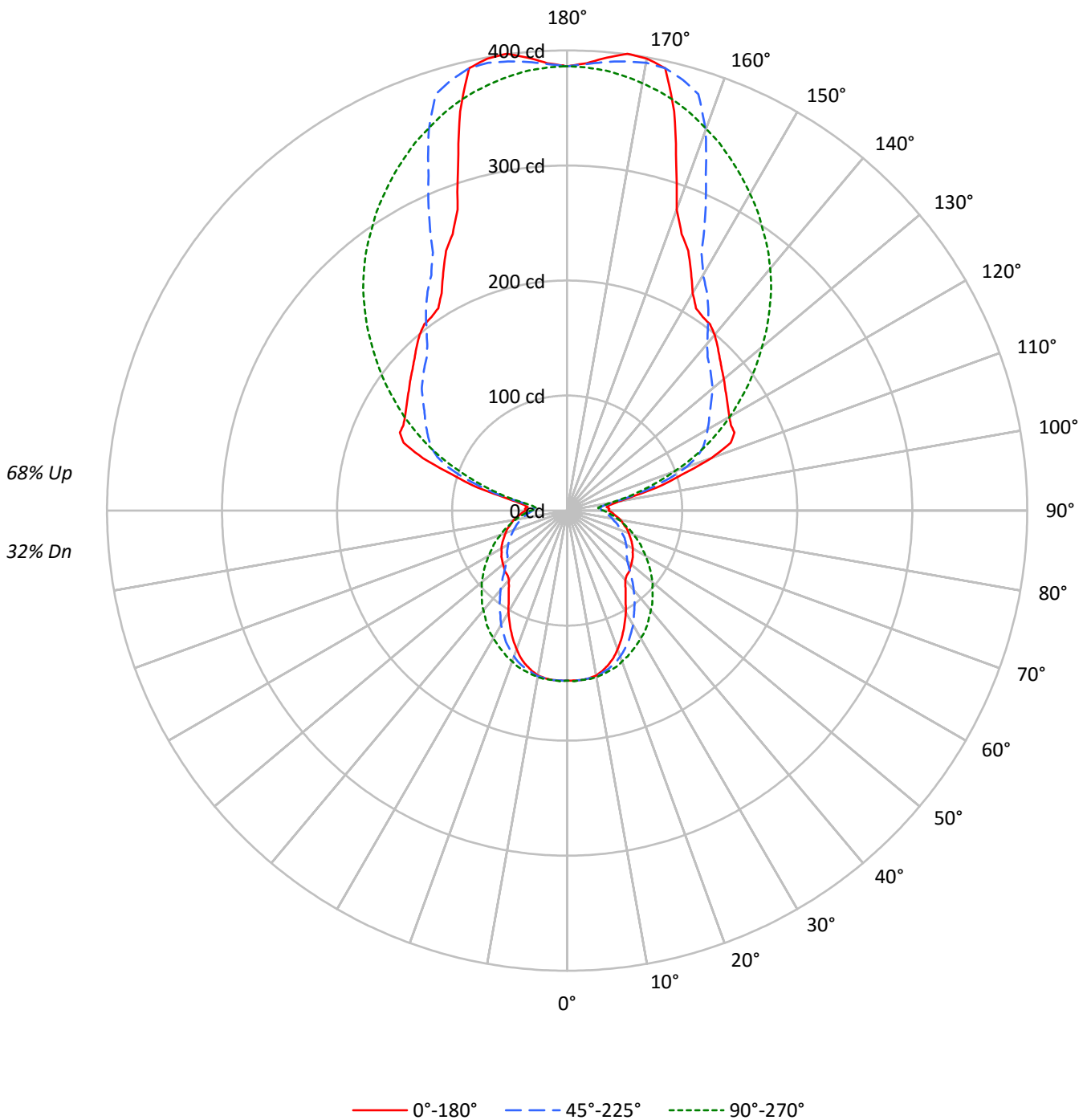
Summary

Lumens per Lamp: 2400 (1 lamp)
Luminaire Lumens: 1426.3 lumens
Efficiency: 59.4%
Efficacy: 44.6 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): 32
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										
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	50	30	10	50	30	10	0														
RCR																																						
0	61	61	61	61	55	55	55	55	44	44	44	33	33	33	24	24	24	19						19														
1	55	52	50	47	49	47	45	43	37	36	34	28	27	26	20	19	19	15						15														
2	50	45	41	38	45	41	37	35	32	30	28	24	23	21	17	16	15	12						12														
3	45	40	35	32	40	36	32	29	28	25	23	21	19	18	15	14	13	10						10														
4	41	35	30	26	37	31	27	24	25	22	20	19	17	15	13	12	11	8						8														
5	38	31	26	23	34	28	24	21	22	19	17	17	15	13	12	10	9	7						7														
6	35	28	23	19	31	25	21	18	20	17	14	15	13	11	11	9	8	6						6														
7	32	25	20	17	29	23	18	15	18	15	13	14	12	10	10	8	7	5						5														
8	30	23	18	15	27	20	16	14	16	13	11	13	10	9	9	8	6	5						5														
9	28	20	16	13	25	19	15	12	15	12	10	12	9	8	8	7	6	4						4														
10	26	19	14	12	23	17	13	11	14	11	9	11	9	7	8	6	5	4						4														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1996	1996	1996
5°	1906	1892	1941
10°	1808	1791	1893
15°	1677	1678	1832
20°	1518	1557	1767
25°	1351	1427	1706
30°	1188	1287	1647
35°	1034	1141	1591
40°	930	1012	1523
45°	912	888	1464
50°	899	793	1411
55°	893	763	1352
60°	883	736	1297
65°	869	714	1256
70°	860	683	1204
75°	846	665	1165
80°	847	639	1149
85°	827	624	1131



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	14.1	1.0	0.6
10°-20°	39.9	2.8	1.7
20°-30°	57.7	4.0	2.4
30°-40°	65.1	4.6	2.7
40°-50°	65.7	4.6	2.7
50°-60°	64.2	4.5	2.7
60°-70°	59.8	4.2	2.5
70°-80°	51.6	3.6	2.1
80°-90°	40.9	2.9	1.7
90°-100°	35.3	2.5	1.5
100°-110°	78.8	5.5	3.3
110°-120°	132.1	9.3	5.5
120°-130°	144.4	10.1	6.0
130°-140°	149.3	10.5	6.2
140°-150°	149.5	10.5	6.2
150°-160°	136.3	9.6	5.7
160°-170°	104.3	7.3	4.3
170°-180°	37.3	2.6	1.6
0°-30°	111.6	7.8	4.6
0°-40°	176.7	12.4	7.4
0°-60°	306.7	21.5	12.8
0°-90°	459.0	32.2	19.1
90°-120°	246.1	17.3	10.3
90°-150°	689.4	48.3	28.7
90°-180°	967.0	67.8	40.3
0°-180°	1426.3	100.0	59.4

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	148	148	148	148	148	
5°	148	148	148	148	148	14
15°	139	140	142	144	144	39
25°	116	118	126	133	134	53
35°	88	92	102	117	122	56
45°	76	74	78	98	105	58
55°	70	68	64	77	88	62
65°	62	59	55	62	70	61
75°	52	50	45	48	53	55
85°	41	40	35	35	38	35
90°	36	34	30	29	32	20
95°	34	33	28	26	27	31
105°	86	82	74	66	67	90
115°	160	152	130	112	133	154
125°	170	164	152	146	193	152
135°	188	186	176	188	249	145
145°	206	203	214	286	297	130
155°	249	252	284	355	337	114
165°	359	373	388	380	368	98
175°	395	395	392	386	384	38
180°	386	386	386	386	386	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	147.8	147.8	147.8	147.8	147.8
2.5°	147.8	147.8	147.8	148.5	148.5
5°	147.8	147.8	147.8	147.8	147.8
7.5°	147.0	147.0	147.0	147.8	147.8
10°	145.5	145.5	146.2	146.2	147.0
12.5°	142.5	142.5	144.0	145.5	145.5
15°	138.8	139.5	141.8	144.0	144.0
17.5°	134.2	135.8	138.8	141.8	142.5
20°	128.2	130.5	135.0	138.8	139.5
22.5°	122.2	124.5	130.5	136.5	137.2
25°	115.5	117.8	126.0	132.8	134.2
27.5°	108.8	111.0	120.0	129.8	131.2
30°	102.0	105.0	114.8	126.0	128.2
32.5°	94.5	98.2	108.0	121.5	125.2
35°	88.5	91.5	102.0	117.0	121.5
37.5°	83.2	85.5	96.0	112.5	117.0
40°	78.8	80.2	90.0	108.0	113.2
42.5°	76.5	75.8	84.0	102.8	109.5
45°	75.8	73.5	78.0	97.5	105.0
47.5°	74.2	72.0	72.8	92.2	100.5
50°	72.8	70.5	68.2	87.0	96.8
52.5°	71.2	69.0	65.2	81.8	92.2
55°	69.8	67.5	63.8	77.2	87.8
57.5°	67.5	65.2	61.5	72.8	83.2
60°	66.0	63.8	59.2	69.0	78.8
62.5°	63.8	61.5	57.0	65.2	74.2
65°	61.5	59.2	54.8	61.5	70.5
67.5°	59.2	57.0	51.8	57.8	66.0
70°	57.0	54.8	49.5	54.8	61.5
72.5°	54.8	52.5	47.2	51.0	57.8
75°	51.8	50.2	45.0	48.0	53.2
77.5°	49.5	47.2	42.0	44.2	49.5
80°	47.2	45.0	39.8	41.2	45.8
82.5°	44.2	42.8	37.5	38.2	42.0
85°	41.2	39.8	35.2	35.2	38.2
87.5°	39.0	37.5	32.2	32.2	35.2
90°	36.0	34.5	30.0	29.2	31.5
92.5°	36.8	35.2	29.2	27.0	27.8
95°	34.5	33.0	28.5	26.2	27.0
97.5°	37.5	36.0	31.5	29.2	30.0
100°	45.0	44.2	39.8	36.8	37.5
102.5°	60.8	60.8	56.2	50.2	51.8
105°	85.5	81.8	74.2	66.0	66.8
107.5°	105.0	102.8	93.0	80.2	82.5
110°	133.5	127.5	110.2	93.0	99.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	153.8	145.5	122.2	103.5	116.2
115°	160.5	151.5	130.5	112.5	132.8
117.5°	160.5	154.5	135.8	120.8	148.5
120°	162.8	158.2	141.0	129.0	163.5
122.5°	165.8	161.2	146.2	137.2	177.8
125°	169.5	164.2	151.5	146.2	192.8
127.5°	173.2	168.8	158.2	155.2	207.0
130°	177.8	174.0	165.0	165.8	221.2
132.5°	182.2	179.2	170.2	176.2	235.5
135°	187.5	186.0	175.5	188.2	249.0
137.5°	193.5	192.8	180.8	209.2	262.5
140°	199.5	198.0	189.0	232.5	274.5
142.5°	204.0	200.2	201.0	258.0	286.5
145°	205.5	203.2	213.8	286.5	297.0
147.5°	208.5	211.5	225.8	311.2	308.2
150°	218.2	225.0	236.2	331.5	318.0
152.5°	233.2	239.2	252.8	345.0	327.8
155°	249.0	252.0	284.2	354.8	336.8
157.5°	260.2	262.5	315.0	363.8	345.8
160°	278.2	297.8	351.8	370.5	353.2
162.5°	315.0	331.5	379.5	375.8	360.8
165°	359.2	372.8	387.8	380.2	367.5
167.5°	393.8	395.2	393.8	383.2	372.8
170°	399.0	399.8	395.2	384.8	377.2
172.5°	400.5	399.8	393.8	385.5	381.0
175°	395.2	395.2	391.5	386.2	384.0
177.5°	389.2	390.0	388.5	386.2	385.5
180°	386.2	386.2	386.2	386.2	386.2

(END OF REPORT)