

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: 20067

Luminaire Tested: **695-WP-18-CF1/32**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 20067
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 695-WP-18-CF1/32
Description: EXTERIOR WALL MOUNT LUMINAIRE WITH WHITE INTERIOR AND WHITE PLASTIC LENS
Light Source: ONE SYLVANIA 32 WATT CPFL LAMP

CF32DT/E/841. LUMEN RATING = 2400 LMS.

Ballast/Driver: -

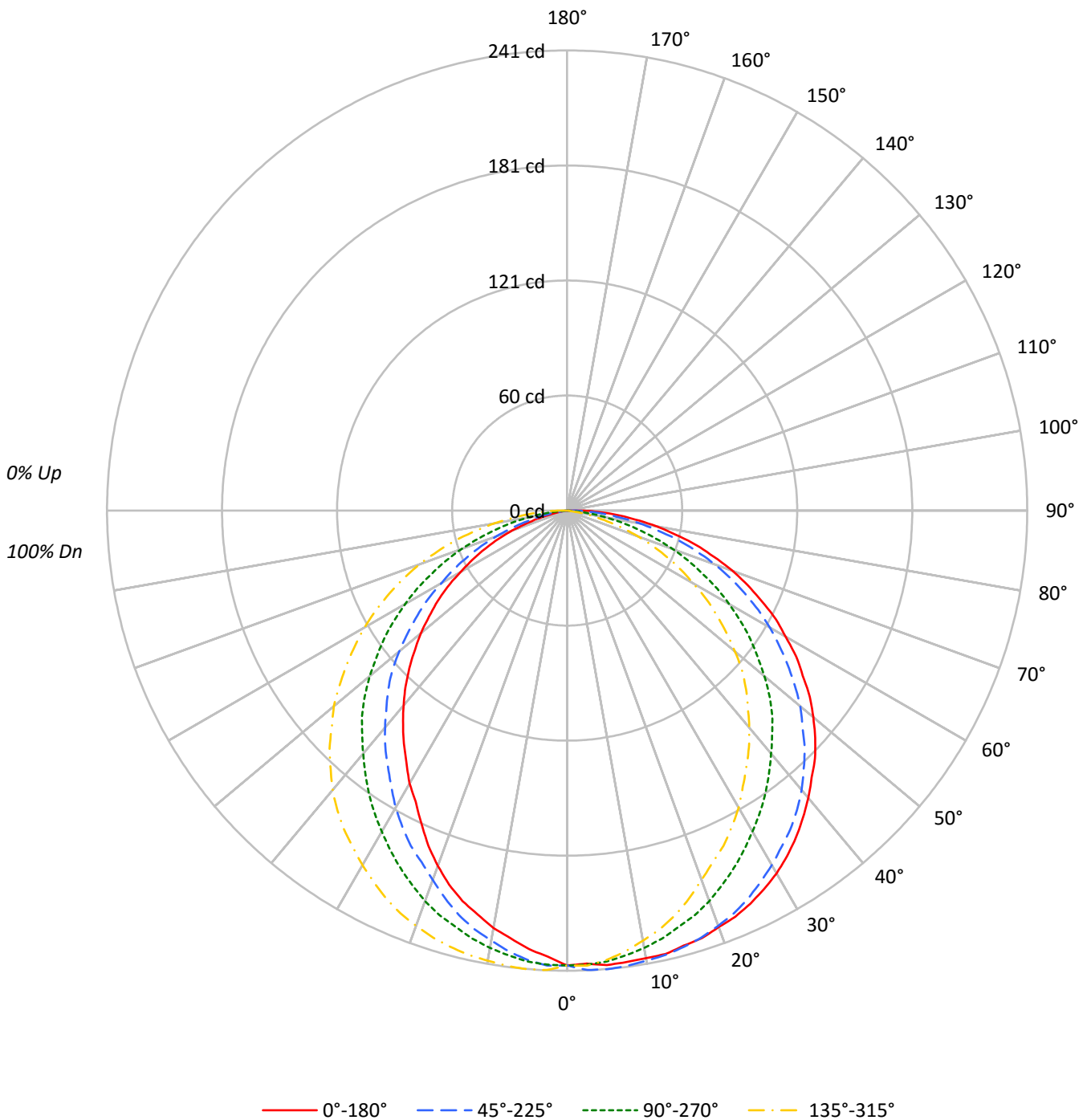
Summary

Lumens per Lamp: 2400 (1 lamp)
Luminaire Lumens: 651.4 lumens
Efficiency: 27.1%
Efficacy: 23.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.36
Luminous Opening: Rectangular (W 0.42' x L: 0.83' x H: 0')
CIE Type: Direct

Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): 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: 20067
CATALOG NUMBER: 695-WP-18-CF1/32

Luminous Intensity Polar Plot





TEST NUMBER: 20067

CATALOG NUMBER: 695-WP-18-CF1/32

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	32	32	32	32	32	32	32	32	30	30	30	29	29	29	28	28	28	27						27														
1	30	28	27	26	29	28	27	26	26	26	25	25	25	24	24	24	23	23						23														
2	27	25	23	21	26	24	22	21	23	22	20	22	21	20	21	20	20	19						19														
3	25	22	19	18	24	21	19	18	20	19	17	20	18	17	19	18	17	16						16														
4	22	19	17	15	22	19	17	15	18	16	15	18	16	14	17	15	14	14						14														
5	21	17	15	13	20	17	15	13	16	14	13	16	14	13	15	14	12	12						12														
6	19	15	13	11	19	15	13	11	15	13	11	14	12	11	14	12	11	10						10														
7	18	14	12	10	17	14	12	10	13	11	10	13	11	10	13	11	10	9						9														
8	16	13	10	9	16	13	10	9	12	10	9	12	10	9	12	10	9	8						8														
9	15	12	10	8	15	12	9	8	11	9	8	11	9	8	11	9	8	7						7														
10	14	11	9	7	14	11	9	7	10	9	7	10	8	7	10	8	7	7						7														

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7355	7355	7355	7355
5°	7405	7349	7144	7349
10°	7462	7290	6961	7290
15°	7541	7215	6767	7215
20°	7627	7150	6506	7150
25°	7737	7039	6156	7039
30°	7823	6921	5883	6921
35°	7878	6823	5616	6823
40°	7920	6699	5373	6699
45°	8017	6637	5105	6637
50°	8085	6480	4804	6480
55°	8107	6304	4457	6304
60°	8158	6046	3983	6046
65°	8227	5713	3470	5713
70°	8324	5317	2754	5317
75°	8363	4641	1778	4641
80°	8446	3699	551	3699
85°	9282	1984	0	1984



TEST NUMBER: 20067

CATALOG NUMBER: 695-WP-18-CF1/32

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	22.5	3.5	0.9
10°-20°	63.8	9.8	2.7
20°-30°	95.4	14.6	4.0
30°-40°	113.7	17.5	4.7
40°-50°	117.3	18.0	4.9
50°-60°	104.9	16.1	4.4
60°-70°	79.0	12.1	3.3
70°-80°	43.4	6.7	1.8
80°-90°	11.4	1.8	0.5
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-30°	181.7	27.9	7.6
0°-40°	295.4	45.3	12.3
0°-60°	517.6	79.5	21.6
0°-90°	651.4	100.0	27.1
90°-120°	0.0	0.0	0.0
90°-150°	0.0	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	651.4	100.0	27.1

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	238	238	238	238	238	
5°	239	237	230	237	239	23
15°	236	226	212	226	236	67
25°	227	207	181	207	227	105
35°	209	181	149	181	209	131
45°	184	152	117	152	184	141
55°	151	117	83	117	151	135
65°	113	78	48	78	113	112
75°	70	39	15	39	70	74
85°	26	6	0	6	26	29
90°	8	0	0	0	8	



TEST NUMBER: 20067

CATALOG NUMBER: 695-WP-18-CF1/32

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	238.2	238.2	238.2	238.2	238.2	238.2	238.2	238.2	238.2	238.2	238.2
2.5°	237.5	238.2	240.8	240.5	238.0	239.0	238.5	234.4	233.8	234.4	238.5
5°	238.9	239.6	241.1	240.3	237.1	237.1	236.3	231.7	230.5	231.7	236.3
7.5°	238.5	239.1	240.5	239.0	235.0	234.8	232.9	228.7	226.0	228.7	232.9
10°	238.0	238.4	239.4	237.3	232.5	230.8	228.7	224.2	222.0	224.2	228.7
12.5°	237.9	237.5	238.3	234.5	229.6	227.6	224.5	219.3	216.6	219.3	224.5
15°	235.9	236.4	236.5	233.0	225.7	223.1	219.3	213.6	211.7	213.6	219.3
17.5°	234.8	234.4	234.4	230.2	222.2	217.2	212.8	206.9	205.4	206.9	212.8
20°	232.1	231.9	231.4	226.4	217.6	210.7	205.8	199.3	198.0	199.3	205.8
22.5°	230.2	229.2	228.3	223.0	212.2	205.3	199.3	192.5	189.9	192.5	199.3
25°	227.1	225.8	224.2	218.5	206.6	198.7	193.7	185.6	180.7	185.6	193.7
27.5°	223.4	221.4	219.3	212.5	200.5	192.3	186.8	177.6	171.9	177.6	186.8
30°	219.4	217.1	214.4	207.4	194.1	185.9	179.7	170.6	165.0	170.6	179.7
32.5°	214.4	211.8	208.9	200.8	187.8	177.7	171.3	161.7	156.6	161.7	171.3
35°	209.0	206.6	203.8	195.2	181.0	170.8	163.7	153.6	149.0	153.6	163.7
37.5°	202.9	200.2	197.7	189.5	173.6	164.0	156.4	145.2	141.2	145.2	156.4
40°	196.5	194.9	191.1	181.7	166.2	156.5	148.4	136.5	133.3	136.5	148.4
42.5°	189.6	187.9	183.4	173.8	158.9	148.3	140.1	128.2	125.3	128.2	140.1
45°	183.6	180.7	176.0	166.3	152.0	140.5	132.5	119.8	116.9	119.8	132.5
47.5°	176.2	173.2	167.1	158.2	143.7	132.3	124.4	111.6	108.2	111.6	124.4
50°	168.3	164.8	159.5	149.3	134.9	122.9	114.7	103.1	100.0	103.1	114.7
52.5°	160.2	155.7	150.2	140.7	125.7	114.1	105.0	94.7	91.1	94.7	105.0
55°	150.6	147.2	141.0	131.2	117.1	104.6	95.7	85.2	82.8	85.2	95.7
57.5°	142.3	137.5	131.7	122.1	107.6	95.2	86.6	76.8	74.3	76.8	86.6
60°	132.1	129.1	122.6	111.8	97.9	86.3	76.1	68.3	64.5	68.3	76.1
62.5°	123.2	119.0	112.9	102.7	88.6	77.3	67.3	59.5	56.0	59.5	67.3
65°	112.6	109.5	102.6	92.1	78.2	67.9	57.7	50.3	47.5	50.3	57.7
67.5°	102.4	99.3	92.6	82.0	68.7	58.6	48.7	41.8	39.1	41.8	48.7
70°	92.2	88.5	82.3	72.3	58.9	48.9	39.5	33.3	30.5	33.3	39.5
72.5°	80.6	77.8	71.2	61.2	48.6	38.3	30.2	24.2	22.1	24.2	30.2
75°	70.1	67.1	60.7	50.6	38.9	28.9	21.6	16.5	14.9	16.5	21.6
77.5°	58.2	55.4	48.7	40.8	29.8	20.7	14.4	10.1	8.0	10.1	14.4
80°	47.5	44.8	38.8	30.8	20.8	12.7	7.8	4.4	3.1	4.4	7.8
82.5°	35.9	33.4	27.8	21.0	12.3	6.0	1.7	0.2	0.0	0.2	1.7
85°	26.2	23.8	18.8	12.6	5.6	1.4	0.0	0.0	0.0	0.0	0.0
87.5°	16.0	14.1	10.6	5.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0
90°	8.5	7.0	3.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: 20067

CATALOG NUMBER: 695-WP-18-CF1/32

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	238.2	238.2	238.2	238.2	238.2	238.2
2.5°	239.0	238.0	240.5	240.8	238.2	237.5
5°	237.1	237.1	240.3	241.1	239.6	238.9
7.5°	234.8	235.0	239.0	240.5	239.1	238.5
10°	230.8	232.5	237.3	239.4	238.4	238.0
12.5°	227.6	229.6	234.5	238.3	237.5	237.9
15°	223.1	225.7	233.0	236.5	236.4	235.9
17.5°	217.2	222.2	230.2	234.4	234.4	234.8
20°	210.7	217.6	226.4	231.4	231.9	232.1
22.5°	205.3	212.2	223.0	228.3	229.2	230.2
25°	198.7	206.6	218.5	224.2	225.8	227.1
27.5°	192.3	200.5	212.5	219.3	221.4	223.4
30°	185.9	194.1	207.4	214.4	217.1	219.4
32.5°	177.7	187.8	200.8	208.9	211.8	214.4
35°	170.8	181.0	195.2	203.8	206.6	209.0
37.5°	164.0	173.6	189.5	197.7	200.2	202.9
40°	156.5	166.2	181.7	191.1	194.9	196.5
42.5°	148.3	158.9	173.8	183.4	187.9	189.6
45°	140.5	152.0	166.3	176.0	180.7	183.6
47.5°	132.3	143.7	158.2	167.1	173.2	176.2
50°	122.9	134.9	149.3	159.5	164.8	168.3
52.5°	114.1	125.7	140.7	150.2	155.7	160.2
55°	104.6	117.1	131.2	141.0	147.2	150.6
57.5°	95.2	107.6	122.1	131.7	137.5	142.3
60°	86.3	97.9	111.8	122.6	129.1	132.1
62.5°	77.3	88.6	102.7	112.9	119.0	123.2
65°	67.9	78.2	92.1	102.6	109.5	112.6
67.5°	58.6	68.7	82.0	92.6	99.3	102.4
70°	48.9	58.9	72.3	82.3	88.5	92.2
72.5°	38.3	48.6	61.2	71.2	77.8	80.6
75°	28.9	38.9	50.6	60.7	67.1	70.1
77.5°	20.7	29.8	40.8	48.7	55.4	58.2
80°	12.7	20.8	30.8	38.8	44.8	47.5
82.5°	6.0	12.3	21.0	27.8	33.4	35.9
85°	1.4	5.6	12.6	18.8	23.8	26.2
87.5°	0.0	0.8	5.5	10.6	14.1	16.0
90°	0.0	0.0	1.3	3.7	7.0	8.5

(END OF REPORT)