

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: 19158

Luminaire Tested: **641-WP-CF1/26**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 19158
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 641-WP-CF1/26
Description: EXTERIOR WALL MOUNT LUMINAIRE WITH WHITE INTERIOR AND CLEAR FLAT
PLASTIC LENS
Light Source: ONE SYLVANIA 26 WATT CPFL LAMP

CF26TE/IN/830. LUMEN RATING = 1800 LMS.

Ballast/Driver: -

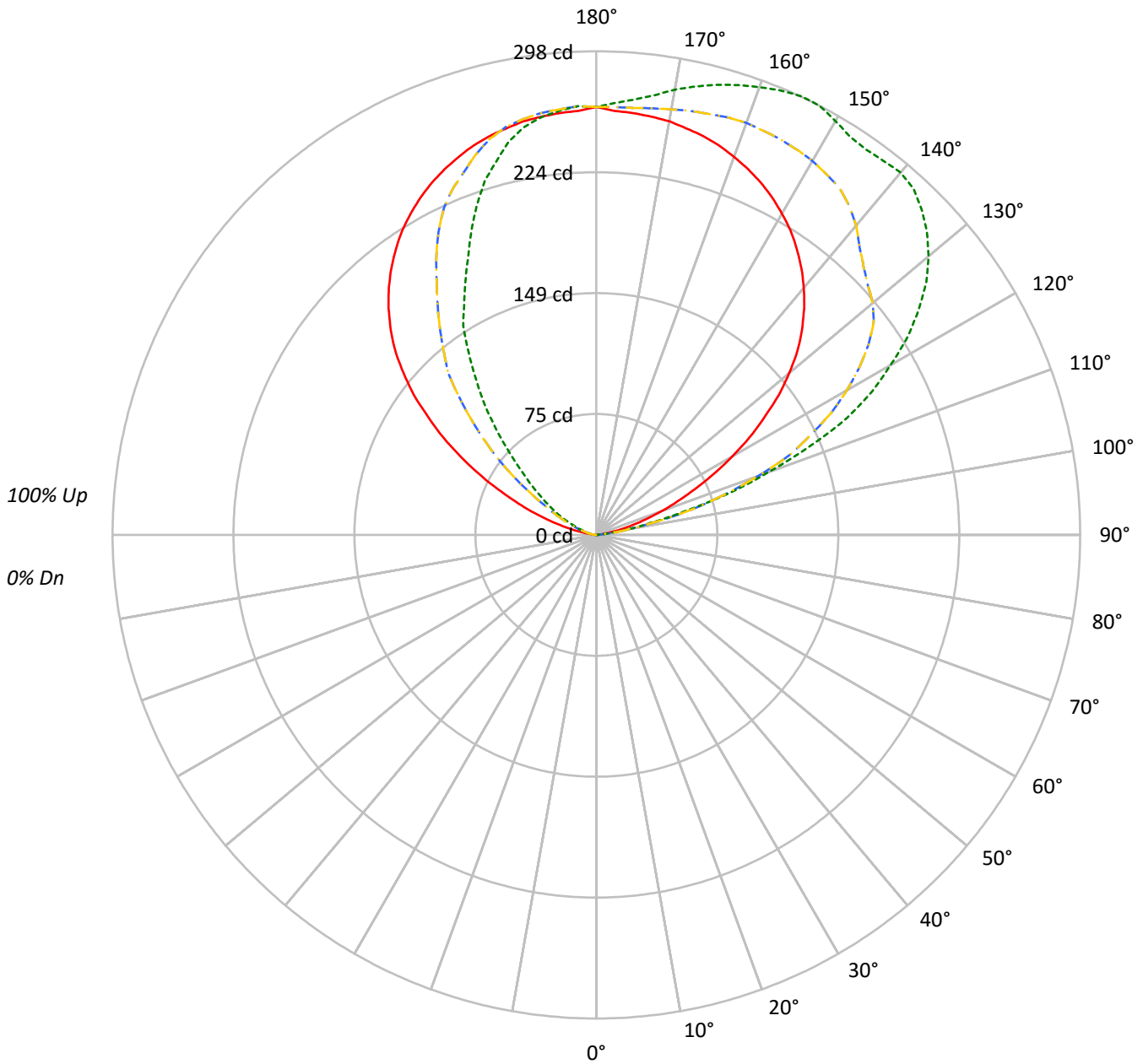
Summary

Lumens per Lamp: 1800 (1 lamp)
Luminaire Lumens: 720.2 lumens
Efficiency: 40.0%
Efficacy: 31.3 lumens/watt
N/A
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Indirect

Input Watts (W): 23
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: 19158
CATALOG NUMBER: 641-WP-CF1/26

Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - - - 135°-315°



TEST NUMBER: 19158

CATALOG NUMBER: 641-WP-CF1/26

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	38	38	38	38	33	33	33	33	22	22	22	13	13	13	4	4	4	0
1	35	33	32	30	30	28	27	26	19	19	18	11	11	10	4	3	3	0
2	32	29	27	25	27	25	23	21	17	16	15	10	9	9	3	3	3	0
3	29	25	23	20	24	22	20	18	15	14	12	9	8	7	3	3	2	0
4	26	22	19	17	22	19	17	15	13	12	11	8	7	6	2	2	2	0
5	24	20	17	15	20	17	14	13	12	10	9	7	6	5	2	2	2	0
6	22	18	15	12	19	15	13	11	10	9	8	6	5	5	2	2	2	0
7	20	16	13	11	17	13	11	9	9	8	7	5	5	4	2	1	1	0
8	19	14	11	9	16	12	10	8	8	7	6	5	4	3	2	1	1	0
9	17	13	10	8	15	11	9	7	8	6	5	4	4	3	1	1	1	0
10	16	12	9	7	14	10	8	6	7	5	4	4	3	3	1	1	1	0

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
95°	Luminaire represents a point source (luminous area is zero).			
100°	No luminance values can be calculated.			
105°				
110°				
115°				
120°				
125°				
130°				
135°				
140°				
145°				
150°				
155°				
160°				
165°				
170°				
175°				



TEST NUMBER: 19158
 CATALOG NUMBER: 641-WP-CF1/26

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	0.0	0.0	0.0
10°-20°	0.0	0.0	0.0
20°-30°	0.0	0.0	0.0
30°-40°	0.0	0.0	0.0
40°-50°	0.0	0.0	0.0
50°-60°	0.0	0.0	0.0
60°-70°	0.0	0.0	0.0
70°-80°	0.0	0.0	0.0
80°-90°	0.0	0.0	0.0
90°-100°	3.8	0.5	0.2
100°-110°	33.3	4.6	1.8
110°-120°	81.3	11.3	4.5
120°-130°	119.2	16.6	6.6
130°-140°	138.1	19.2	7.7
140°-150°	134.5	18.7	7.5
150°-160°	111.8	15.5	6.2
160°-170°	73.2	10.2	4.1
170°-180°	25.1	3.5	1.4
0°-30°	0.0	0.0	0.0
0°-40°	0.0	0.0	0.0
0°-60°	0.0	0.0	0.0
0°-90°	0.0	0.0	0.0
90°-120°	118.3	16.4	6.6
90°-150°	510.1	70.8	28.3
90°-180°	720.0	100.0	40.0
0°-180°	720.2	100.0	40.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
90°	0	0	0	0	0	
95°	1	3	1	2	1	3
105°	23	57	23	6	23	25
115°	67	170	67	20	67	67
125°	126	242	126	42	126	113
135°	179	283	179	82	179	138
145°	215	290	215	137	215	135
155°	240	298	240	187	240	110
165°	254	287	254	238	254	72
175°	261	269	261	262	261	25
180°	264	264	264	264	264	



TEST NUMBER: 19158
 CATALOG NUMBER: 641-WP-CF1/26

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
92.5°	0.6	0.9	0.8	1.1	1.2	1.1	0.8	0.9	0.6	0.8	0.9
95°	1.3	2.4	3.3	2.8	2.6	2.8	3.3	2.4	1.3	1.1	0.9
97.5°	3.1	6.2	9.2	9.5	9.2	9.5	9.2	6.2	3.1	2.1	2.1
100°	8.3	16.2	20.6	20.9	19.9	20.9	20.6	16.2	8.3	3.7	3.6
102.5°	15.1	32.0	38.4	36.3	34.2	36.3	38.4	32.0	15.1	5.9	5.3
105°	22.8	47.3	61.7	59.9	57.0	59.9	61.7	47.3	22.8	9.6	7.0
107.5°	31.7	62.9	82.6	86.2	85.9	86.2	82.6	62.9	31.7	14.6	10.2
110°	42.5	76.6	106.4	110.6	112.6	110.6	106.4	76.6	42.5	22.8	13.7
112.5°	54.0	88.9	129.0	137.9	141.7	137.9	129.0	88.9	54.0	32.6	18.5
115°	67.1	100.8	145.5	160.6	170.3	160.6	145.5	100.8	67.1	46.1	23.7
117.5°	81.7	114.9	163.2	181.2	191.4	181.2	163.2	114.9	81.7	61.1	30.2
120°	96.5	128.8	178.1	198.7	209.2	198.7	178.1	128.8	96.5	76.4	37.5
122.5°	111.8	142.9	192.0	214.5	227.3	214.5	192.0	142.9	111.8	90.6	48.3
125°	126.3	155.9	204.6	229.0	242.5	229.0	204.6	155.9	126.3	105.6	61.2
127.5°	141.6	167.7	215.3	240.9	256.1	240.9	215.3	167.7	141.6	121.9	75.0
130°	155.0	178.4	222.2	251.1	267.1	251.1	222.2	178.4	155.0	137.6	89.0
132.5°	168.1	188.9	227.0	260.0	276.1	260.0	227.0	188.9	168.1	153.1	103.5
135°	179.1	198.1	232.9	267.1	283.4	267.1	232.9	198.1	179.1	167.6	119.0
137.5°	189.4	206.2	240.0	270.1	289.2	270.1	240.0	206.2	189.4	180.8	134.8
140°	198.8	213.4	248.9	270.3	291.5	270.3	248.9	213.4	198.8	192.9	145.9
142.5°	207.4	220.1	255.8	271.5	290.5	271.5	255.8	220.1	207.4	203.0	157.7
145°	215.2	225.7	261.0	274.2	289.8	274.2	261.0	225.7	215.2	213.1	170.1
147.5°	222.5	231.1	263.6	279.8	290.8	279.8	263.6	231.1	222.5	221.6	183.0
150°	228.6	235.6	266.1	284.5	294.5	284.5	266.1	235.6	228.6	230.7	197.2
152.5°	234.5	239.9	267.6	286.6	298.0	286.6	267.6	239.9	234.5	237.7	210.5
155°	239.5	243.6	268.8	286.2	298.3	286.2	268.8	243.6	239.5	244.3	222.2
157.5°	244.0	246.7	269.4	284.9	296.4	284.9	269.4	246.7	244.0	248.8	230.9
160°	247.9	249.3	270.2	283.5	293.6	283.5	270.2	249.3	247.9	253.0	238.1
162.5°	251.6	252.3	269.7	281.3	290.6	281.3	269.7	252.3	251.6	256.5	246.1
165°	254.4	255.4	268.5	278.5	287.1	278.5	268.5	255.4	254.4	259.3	252.8
167.5°	256.5	257.4	267.6	275.0	283.0	275.0	267.6	257.4	256.5	261.1	257.5
170°	258.8	258.7	266.2	271.7	278.6	271.7	266.2	258.7	258.8	262.6	260.1
172.5°	259.9	260.5	265.1	268.5	273.2	268.5	265.1	260.5	259.9	263.8	262.2
175°	260.9	261.2	264.1	265.8	269.3	265.8	264.1	261.2	260.9	263.9	263.2
177.5°	261.5	262.3	263.8	263.7	266.4	263.7	263.8	262.3	261.5	264.3	264.3
180°	263.7	263.7	263.7	263.7	263.7	263.7	263.7	263.7	263.7	263.7	263.7



TEST NUMBER: 19158

CATALOG NUMBER: 641-WP-CF1/26

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.5	0.5	0.5	0.5	0.5	0.5
92.5°	1.5	1.5	1.5	0.9	0.8	0.6
95°	2.0	2.4	2.0	0.9	1.1	1.3
97.5°	2.4	2.7	2.4	2.1	2.1	3.1
100°	3.1	3.9	3.1	3.6	3.7	8.3
102.5°	3.6	4.3	3.6	5.3	5.9	15.1
105°	5.4	6.4	5.4	7.0	9.6	22.8
107.5°	7.6	8.3	7.6	10.2	14.6	31.7
110°	11.0	11.9	11.0	13.7	22.8	42.5
112.5°	14.2	15.1	14.2	18.5	32.6	54.0
115°	18.8	19.9	18.8	23.7	46.1	67.1
117.5°	23.9	24.8	23.9	30.2	61.1	81.7
120°	29.7	30.1	29.7	37.5	76.4	96.5
122.5°	36.1	35.8	36.1	48.3	90.6	111.8
125°	43.8	42.3	43.8	61.2	105.6	126.3
127.5°	52.6	50.3	52.6	75.0	121.9	141.6
130°	63.2	58.5	63.2	89.0	137.6	155.0
132.5°	75.7	69.1	75.7	103.5	153.1	168.1
135°	89.2	81.5	89.2	119.0	167.6	179.1
137.5°	103.1	94.8	103.1	134.8	180.8	189.4
140°	117.0	108.9	117.0	145.9	192.9	198.8
142.5°	131.7	122.3	131.7	157.7	203.0	207.4
145°	147.6	137.1	147.6	170.1	213.1	215.2
147.5°	158.3	152.6	158.3	183.0	221.6	222.5
150°	169.8	163.0	169.8	197.2	230.7	228.6
152.5°	182.0	174.9	182.0	210.5	237.7	234.5
155°	195.2	187.2	195.2	222.2	244.3	239.5
157.5°	209.7	201.5	209.7	230.9	248.8	244.0
160°	222.8	215.6	222.8	238.1	253.0	247.9
162.5°	233.1	228.5	233.1	246.1	256.5	251.6
165°	241.7	238.3	241.7	252.8	259.3	254.4
167.5°	250.3	248.4	250.3	257.5	261.1	256.5
170°	255.8	255.3	255.8	260.1	262.6	258.8
172.5°	259.8	259.6	259.8	262.2	263.8	259.9
175°	262.0	262.3	262.0	263.2	263.9	260.9
177.5°	263.1	264.4	263.1	264.3	264.3	261.5
180°	263.7	263.7	263.7	263.7	263.7	263.7

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