

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: 19158B

Luminaire Tested: **641-WP-CF1/42**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 19158B
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 641-WP-CF1/42
Description: EXTERIOR WALL MOUNT LUMINAIRE WITH WHITE INTERIOR AND CLEAR FLAT
PLASTIC LENS
Light Source: ONE 42 WATT CPFL LAMP. LUMEN RATING = 3200 LMS.

Ballast/Driver: -

Summary

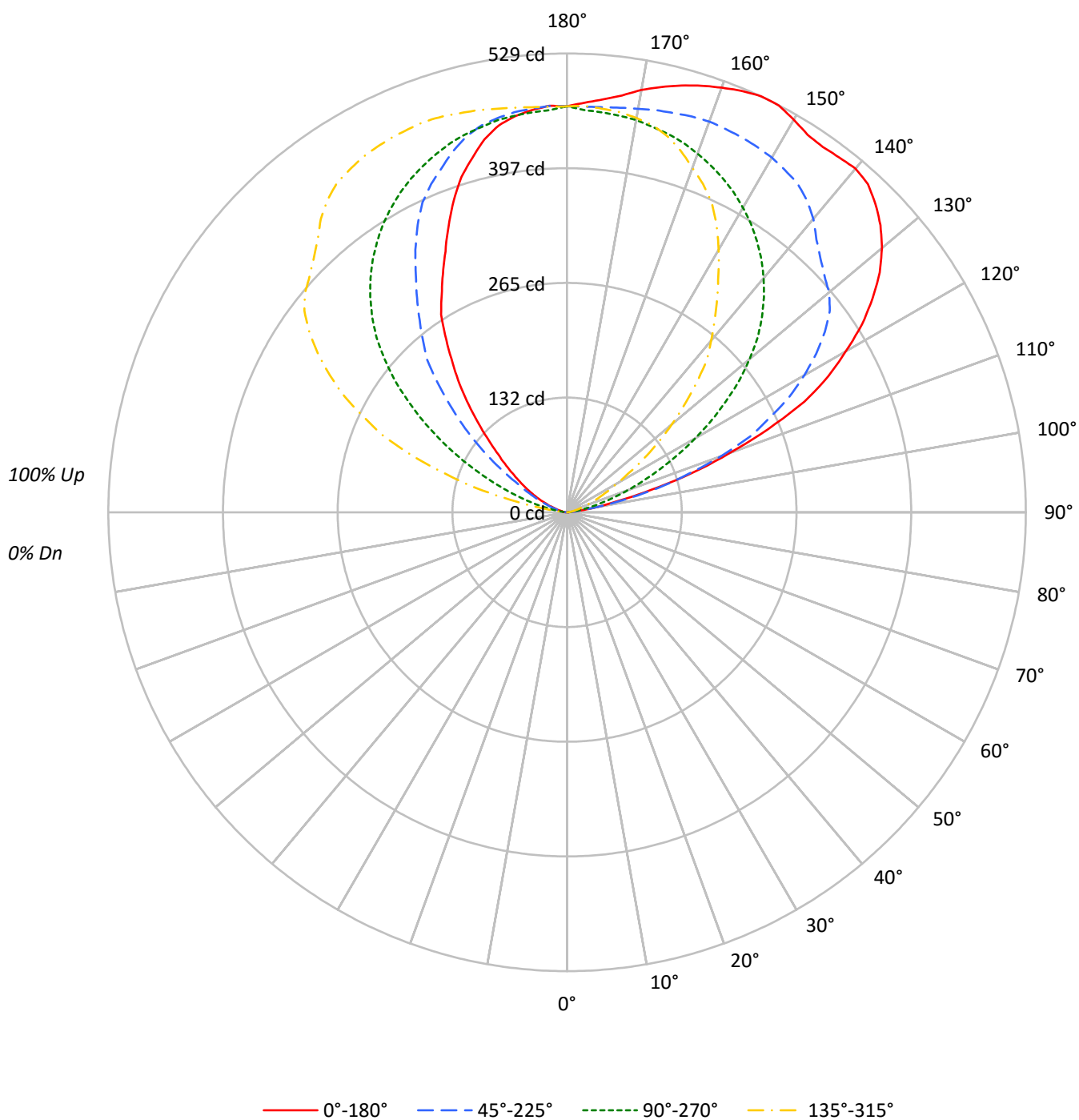
Lumens per Lamp: 3200 (1 lamp)
Luminaire Lumens: 1274.7 lumens
Efficiency: 39.8%
Efficacy: -
N/A
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Indirect

Input Watts (W): 0
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	38	38	38	38	32	32	32	32	22	22	22	13	13	13	4	4	4
1	34	33	31	30	29	28	27	26	19	19	18	11	11	10	4	3	3
2	31	29	26	25	27	25	23	21	17	16	15	10	9	9	3	3	3
3	29	25	23	20	24	22	19	18	15	13	12	9	8	7	3	3	2
4	26	22	19	17	22	19	17	15	13	12	10	8	7	6	2	2	2
5	24	20	17	14	20	17	14	13	12	10	9	7	6	5	2	2	2
6	22	17	15	12	19	15	13	11	10	9	8	6	5	5	2	2	1
7	20	16	13	11	17	13	11	9	9	8	7	5	5	4	2	1	1
8	19	14	11	9	16	12	10	8	8	7	6	5	4	3	2	1	1
9	17	13	10	8	15	11	9	7	8	6	5	4	4	3	1	1	1
10	16	12	9	7	14	10	8	6	7	5	4	4	3	3	1	1	1

AVERAGE LUMINANCE (cd/sqm):

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

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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°	5.7	0.4	0.2
100°-110°	58.2	4.6	1.8
110°-120°	143.6	11.3	4.5
120°-130°	211.1	16.6	6.6
130°-140°	244.8	19.2	7.7
140°-150°	238.5	18.7	7.5
150°-160°	198.4	15.6	6.2
160°-170°	129.8	10.2	4.1
170°-180°	44.6	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°	207.5	16.3	6.5
90°-150°	901.9	70.8	28.2
90°-180°	1275.0	100.0	39.8
0°-180°	1274.7	100.0	39.8

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
90°	0	0	0	0	0	
95°	4	1	3	1	4	10
105°	100	40	10	40	100	113
115°	302	118	34	118	302	291
125°	430	224	74	224	430	383
135°	503	318	144	318	503	387
145°	514	382	243	382	514	324
155°	529	425	332	425	529	244
165°	510	451	423	451	510	145
175°	478	463	466	463	478	46
180°	468	468	468	468	468	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	1.2	1.0	0.5	0.8	0.2	0.5	0.8	1.8	1.8	1.8	0.8
95°	3.7	4.1	4.9	3.3	1.4	1.0	0.7	2.7	3.4	2.7	0.7
97.5°	15.4	16.0	15.5	10.1	4.6	2.9	2.9	3.4	3.9	3.4	2.9
100°	34.5	36.2	35.7	27.9	13.9	5.7	5.4	4.6	6.1	4.6	5.4
102.5°	59.9	63.6	67.3	55.9	25.9	9.7	8.5	5.5	6.7	5.5	8.5
105°	100.4	105.6	108.7	83.1	39.7	16.2	11.5	8.8	10.5	8.8	11.5
107.5°	151.8	152.3	146.0	110.9	55.4	25.1	17.2	12.6	13.8	12.6	17.2
110°	199.2	195.7	188.3	135.3	74.7	39.7	23.5	18.6	20.3	18.6	23.5
112.5°	251.0	244.2	228.4	157.1	95.1	57.1	32.0	24.4	26.0	24.4	32.0
115°	301.9	284.6	257.7	178.4	118.4	81.0	41.3	32.5	34.5	32.5	41.3
117.5°	339.5	321.2	289.2	203.5	144.4	107.7	52.7	41.6	43.1	41.6	52.7
120°	371.0	352.3	315.7	228.2	170.7	134.9	65.7	51.9	52.6	51.9	65.7
122.5°	403.2	380.5	340.5	253.2	197.8	160.3	85.0	63.3	62.7	63.3	85.0
125°	430.1	406.3	362.8	276.2	223.7	186.9	108.0	77.0	74.4	77.0	108.0
127.5°	454.3	427.4	381.8	297.2	250.8	215.8	132.4	92.7	88.5	92.7	132.4
130°	474.0	445.4	394.2	316.3	274.6	243.7	157.4	111.5	103.2	111.5	157.4
132.5°	490.0	461.3	402.7	334.9	297.9	271.3	183.1	133.7	121.9	133.7	183.1
135°	502.9	473.9	413.2	351.3	317.5	297.1	210.7	157.7	143.9	157.7	210.7
137.5°	513.3	479.3	425.8	365.7	335.8	320.6	238.8	182.5	167.7	182.5	238.8
140°	517.4	479.7	441.6	378.5	352.5	342.0	258.6	207.0	192.7	207.0	258.6
142.5°	515.5	481.8	453.8	390.3	367.8	360.0	279.4	233.2	216.5	233.2	279.4
145°	514.2	486.5	463.1	400.3	381.6	378.0	301.6	261.5	242.9	261.5	301.6
147.5°	516.1	496.6	467.7	410.0	394.6	393.0	324.4	280.5	270.4	280.5	324.4
150°	522.7	504.9	472.2	418.0	405.6	409.3	349.7	301.0	289.0	301.0	349.7
152.5°	528.8	508.6	474.8	425.5	416.0	421.7	373.3	322.6	310.0	322.6	373.3
155°	529.4	507.9	477.0	432.2	424.9	433.5	394.2	346.2	331.9	346.2	394.2
157.5°	526.0	505.6	478.1	437.8	432.9	441.5	409.7	371.9	357.2	371.9	409.7
160°	521.0	503.1	479.4	442.3	439.9	448.9	422.5	395.2	382.4	395.2	422.5
162.5°	515.7	499.2	478.5	447.7	446.5	455.1	436.7	413.5	405.3	413.5	436.7
165°	509.5	494.2	476.4	453.2	451.4	460.2	448.5	428.7	422.7	428.7	448.5
167.5°	502.2	487.9	474.9	456.7	455.1	463.2	456.9	444.1	440.6	444.1	456.9
170°	494.4	482.2	472.4	459.0	459.2	465.9	461.5	453.8	453.0	453.8	461.5
172.5°	484.8	476.5	470.4	462.2	461.2	468.0	465.2	461.0	460.6	461.0	465.2
175°	477.8	471.6	468.7	463.5	462.9	468.3	467.1	464.8	465.5	464.8	467.1
177.5°	472.7	467.9	468.0	465.3	464.1	468.9	468.9	466.8	469.1	466.8	468.9
180°	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0

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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.5	0.2	0.8	0.5	1.0	1.2
95°	1.0	1.4	3.3	4.9	4.1	3.7
97.5°	2.9	4.6	10.1	15.5	16.0	15.4
100°	5.7	13.9	27.9	35.7	36.2	34.5
102.5°	9.7	25.9	55.9	67.3	63.6	59.9
105°	16.2	39.7	83.1	108.7	105.6	100.4
107.5°	25.1	55.4	110.9	146.0	152.3	151.8
110°	39.7	74.7	135.3	188.3	195.7	199.2
112.5°	57.1	95.1	157.1	228.4	244.2	251.0
115°	81.0	118.4	178.4	257.7	284.6	301.9
117.5°	107.7	144.4	203.5	289.2	321.2	339.5
120°	134.9	170.7	228.2	315.7	352.3	371.0
122.5°	160.3	197.8	253.2	340.5	380.5	403.2
125°	186.9	223.7	276.2	362.8	406.3	430.1
127.5°	215.8	250.8	297.2	381.8	427.4	454.3
130°	243.7	274.6	316.3	394.2	445.4	474.0
132.5°	271.3	297.9	334.9	402.7	461.3	490.0
135°	297.1	317.5	351.3	413.2	473.9	502.9
137.5°	320.6	335.8	365.7	425.8	479.3	513.3
140°	342.0	352.5	378.5	441.6	479.7	517.4
142.5°	360.0	367.8	390.3	453.8	481.8	515.5
145°	378.0	381.6	400.3	463.1	486.5	514.2
147.5°	393.0	394.6	410.0	467.7	496.6	516.1
150°	409.3	405.6	418.0	472.2	504.9	522.7
152.5°	421.7	416.0	425.5	474.8	508.6	528.8
155°	433.5	424.9	432.2	477.0	507.9	529.4
157.5°	441.5	432.9	437.8	478.1	505.6	526.0
160°	448.9	439.9	442.3	479.4	503.1	521.0
162.5°	455.1	446.5	447.7	478.5	499.2	515.7
165°	460.2	451.4	453.2	476.4	494.2	509.5
167.5°	463.2	455.1	456.7	474.9	487.9	502.2
170°	465.9	459.2	459.0	472.4	482.2	494.4
172.5°	468.0	461.2	462.2	470.4	476.5	484.8
175°	468.3	462.9	463.5	468.7	471.6	477.8
177.5°	468.9	464.1	465.3	468.0	467.9	472.7
180°	468.0	468.0	468.0	468.0	468.0	468.0

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