

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: 19144

Luminaire Tested: **697-WP-CF1/42**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 19144
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 697-WP-CF1/42
Description: EXTERIOR WALL MOUNT LUMINAIRE WITH PEBBLE TONE SPECULAR REFLECTOR
AND CLEAR FLAT GLASS LENS
Light Source: ONE SYLVANIA 42 WATT CPFL LAMP

CF42DT/E/IN/830. LUMEN RATING = 3200 LMS.

Ballast/Driver: -

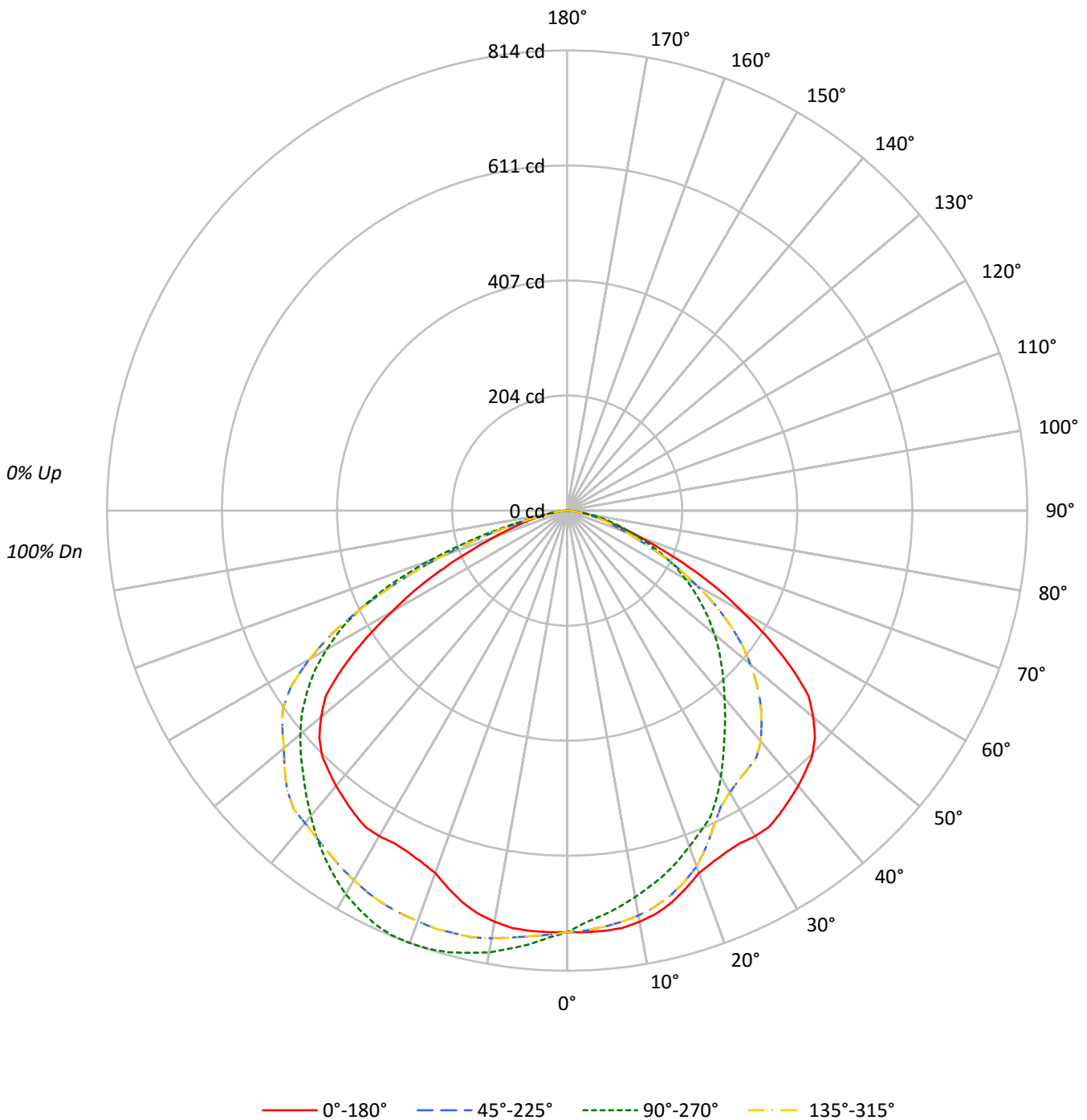
Summary

Lumens per Lamp: 3200 (1 lamp)
Luminaire Lumens: 2245.3 lumens
Efficiency: 70.2%
Efficacy: 44.9 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.3 / 1.49
Luminous Opening: Rectangular (W 0.67' x L: 0.58' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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

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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	84	84	84	84	82	82	82	82	78	78	78	75	75	75	72	72	72	70
1	77	74	71	68	75	72	70	67	69	67	65	66	65	63	64	63	61	60
2	70	65	60	56	68	63	59	55	61	57	54	58	55	53	56	54	52	50
3	64	57	51	47	62	56	50	46	53	49	45	52	48	45	50	47	44	42
4	58	50	44	39	57	49	43	39	47	42	39	46	41	38	44	41	38	36
5	54	45	38	34	52	44	38	34	42	37	33	41	36	33	40	36	32	31
6	49	40	34	29	48	39	33	29	38	33	29	37	32	29	36	32	28	27
7	46	36	30	26	44	36	30	26	35	29	25	34	29	25	33	28	25	24
8	42	33	27	23	41	32	27	23	32	26	23	31	26	22	30	26	22	21
9	40	30	24	20	39	30	24	20	29	24	20	28	24	20	27	23	20	19
10	37	28	22	18	36	27	22	18	27	22	18	26	21	18	25	21	18	17

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	20658	20658	20658	20658
5°	20748	19986	20748	21418
10°	20771	19520	20771	22321
15°	20564	19113	20564	23199
20°	20106	18635	20106	23994
25°	20367	18295	20367	24652
30°	21270	17406	21270	25066
35°	22162	16403	22162	25300
40°	22993	15650	22993	25496
45°	24017	15113	24017	25854
50°	24481	14638	24481	26545
55°	23373	14063	23373	27145
60°	19855	13362	19855	27239
65°	15704	12309	15704	25883
70°	11095	10715	11095	21049
75°	8016	8893	8016	12714
80°	5695	6987	5695	5711
85°	4449	3496	4449	3750



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	71.2	3.2	2.2
10°-20°	207.1	9.2	6.5
20°-30°	319.0	14.2	10.0
30°-40°	404.2	18.0	12.6
40°-50°	445.9	19.9	13.9
50°-60°	416.4	18.5	13.0
60°-70°	270.5	12.0	8.5
70°-80°	96.1	4.3	3.0
80°-90°	15.1	0.7	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°	597.2	26.6	18.7
0°-40°	1001.5	44.6	31.3
0°-60°	1863.7	83.0	58.2
0°-90°	2245.3	100.0	70.2
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°	2245.3	100.0	70.2

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	746	746	746	746	746	
5°	746	719	746	770	746	71
15°	717	666	717	809	717	202
25°	666	599	666	807	666	309
35°	655	485	655	748	655	410
45°	613	386	613	660	613	471
55°	484	291	484	562	484	426
65°	240	188	240	395	240	240
75°	75	83	75	119	75	83
85°	14	11	14	12	14	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	745.8	745.8	745.8	745.8	745.8	745.8	745.8	745.8	745.8	745.8	745.8
2.5°	746.6	750.2	743.6	735.9	729.5	735.9	743.6	750.2	746.6	746.6	751.2
5°	746.2	749.3	739.2	727.0	718.8	727.0	739.2	749.3	746.2	744.9	755.6
7.5°	744.7	748.5	733.9	718.0	707.0	718.0	733.9	748.5	744.7	745.3	761.7
10°	738.5	740.0	727.4	708.3	694.0	708.3	727.4	740.0	738.5	745.5	768.4
12.5°	730.0	729.5	717.7	697.6	680.3	697.6	717.7	729.5	730.0	744.4	773.3
15°	717.1	714.4	704.8	688.3	666.5	688.3	704.8	714.4	717.1	742.2	773.8
17.5°	700.1	690.2	688.8	676.2	650.1	676.2	688.8	690.2	700.1	738.4	775.2
20°	682.1	661.6	669.9	659.4	632.2	659.4	669.9	661.6	682.1	733.4	773.0
22.5°	673.0	640.4	643.4	640.7	615.2	640.7	643.4	640.4	673.0	728.5	771.1
25°	666.4	630.6	614.1	621.5	598.6	621.5	614.1	630.6	666.4	720.7	768.0
27.5°	663.0	627.8	589.6	599.0	572.8	599.0	589.6	627.8	663.0	713.8	762.3
30°	665.0	632.7	575.5	574.7	544.2	574.7	575.5	632.7	665.0	706.4	754.6
32.5°	663.9	636.9	564.8	545.9	513.9	545.9	564.8	636.9	663.9	703.4	746.9
35°	655.4	632.5	557.7	515.8	485.1	515.8	557.7	632.5	655.4	704.3	737.3
37.5°	645.5	620.7	550.0	482.6	459.3	482.6	550.0	620.7	645.5	694.0	728.7
40°	635.9	604.7	532.6	452.9	432.8	452.9	532.6	604.7	635.9	683.3	721.3
42.5°	624.5	582.2	509.0	425.7	409.5	425.7	509.0	582.2	624.5	676.2	716.1
45°	613.1	553.8	484.0	403.1	385.8	403.1	484.0	553.8	613.1	674.3	700.1
47.5°	594.6	525.5	455.1	383.9	363.8	383.9	455.1	525.5	594.6	670.9	677.8
50°	568.1	490.8	423.5	365.5	339.7	365.5	423.5	490.8	568.1	653.7	653.9
52.5°	538.2	455.7	390.2	346.0	316.5	346.0	390.2	455.7	538.2	626.4	635.0
55°	484.0	409.5	350.9	318.5	291.2	318.5	350.9	409.5	484.0	594.6	614.3
57.5°	423.1	357.2	310.1	290.1	267.0	290.1	310.1	357.2	423.1	538.7	578.9
60°	358.4	299.8	264.0	259.0	241.2	259.0	264.0	299.8	358.4	465.8	526.9
62.5°	300.7	246.1	221.6	224.7	217.6	224.7	221.6	246.1	300.7	399.6	466.2
65°	239.6	191.4	179.8	188.4	187.8	188.4	179.8	191.4	239.6	328.6	389.7
67.5°	183.7	146.0	139.7	155.6	159.4	155.6	139.7	146.0	183.7	259.6	311.0
70°	137.0	109.2	106.9	126.8	132.3	126.8	106.9	109.2	137.0	193.3	232.9
72.5°	101.4	81.4	83.6	99.5	105.8	99.5	83.6	81.4	101.4	132.5	159.4
75°	74.9	63.2	65.9	77.8	83.1	77.8	65.9	63.2	74.9	88.0	100.4
77.5°	52.7	46.5	47.8	57.5	64.4	57.5	47.8	46.5	52.7	57.5	59.1
80°	35.7	32.2	32.7	40.1	43.8	40.1	32.7	32.2	35.7	36.3	34.9
82.5°	22.8	21.7	18.6	22.0	25.8	22.0	18.6	21.7	22.8	20.9	19.8
85°	14.0	13.7	10.8	10.4	11.0	10.4	10.8	13.7	14.0	11.8	11.2
87.5°	6.2	6.6	4.3	3.9	4.1	3.9	4.3	6.6	6.2	4.1	3.9
90°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	745.8	745.8	745.8	745.8	745.8	745.8
2.5°	753.7	756.2	753.7	751.2	746.6	746.6
5°	764.8	770.3	764.8	755.6	744.9	746.2
7.5°	774.1	781.5	774.1	761.7	745.3	744.7
10°	782.9	793.6	782.9	768.4	745.5	738.5
12.5°	789.0	801.0	789.0	773.3	744.4	730.0
15°	794.7	809.0	794.7	773.8	742.2	717.1
17.5°	799.5	812.9	799.5	775.2	738.4	700.1
20°	802.9	814.0	802.9	773.0	733.4	682.1
22.5°	801.9	812.6	801.9	771.1	728.5	673.0
25°	797.8	806.6	797.8	768.0	720.7	666.4
27.5°	789.8	795.5	789.8	762.3	713.8	663.0
30°	780.2	783.7	780.2	754.6	706.4	665.0
32.5°	766.7	766.5	766.7	746.9	703.4	663.9
35°	752.1	748.2	752.1	737.3	704.3	655.4
37.5°	734.5	728.2	734.5	728.7	694.0	645.5
40°	716.9	705.1	716.9	721.3	683.3	635.9
42.5°	698.0	683.3	698.0	716.1	676.2	624.5
45°	676.8	660.0	676.8	700.1	674.3	613.1
47.5°	654.1	639.1	654.1	677.8	670.9	594.6
50°	628.4	616.0	628.4	653.9	653.7	568.1
52.5°	602.2	591.5	602.2	635.0	626.4	538.2
55°	572.0	562.1	572.0	614.3	594.6	484.0
57.5°	536.2	530.5	536.2	578.9	538.7	423.1
60°	492.5	491.7	492.5	526.9	465.8	358.4
62.5°	441.9	449.6	441.9	466.2	399.6	300.7
65°	377.3	394.9	377.3	389.7	328.6	239.6
67.5°	312.6	332.2	312.6	311.0	259.6	183.7
70°	243.9	259.9	243.9	232.9	193.3	137.0
72.5°	171.6	184.8	171.6	159.4	132.5	101.4
75°	109.2	118.8	109.2	100.4	88.0	74.9
77.5°	64.0	65.4	64.0	59.1	57.5	52.7
80°	35.2	35.8	35.2	34.9	36.3	35.7
82.5°	18.6	20.1	18.6	19.8	20.9	22.8
85°	10.4	11.8	10.4	11.2	11.8	14.0
87.5°	3.0	5.2	3.0	3.9	4.1	6.2
90°	0.5	0.5	0.5	0.5	0.5	0.5

(END OF REPORT)