

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: 19438

Luminaire Tested: **464-CF1/32**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 19438
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 464-CF1/32
Description: INTERIOR SUSPENDED LUMINAIRE WITH WHITE PLASTIC CONE AND WHITE
PLASTIC SHADE
Light Source: ONE SYLVANIA 32 WATT CPFL LAMP

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

Ballast/Driver: -

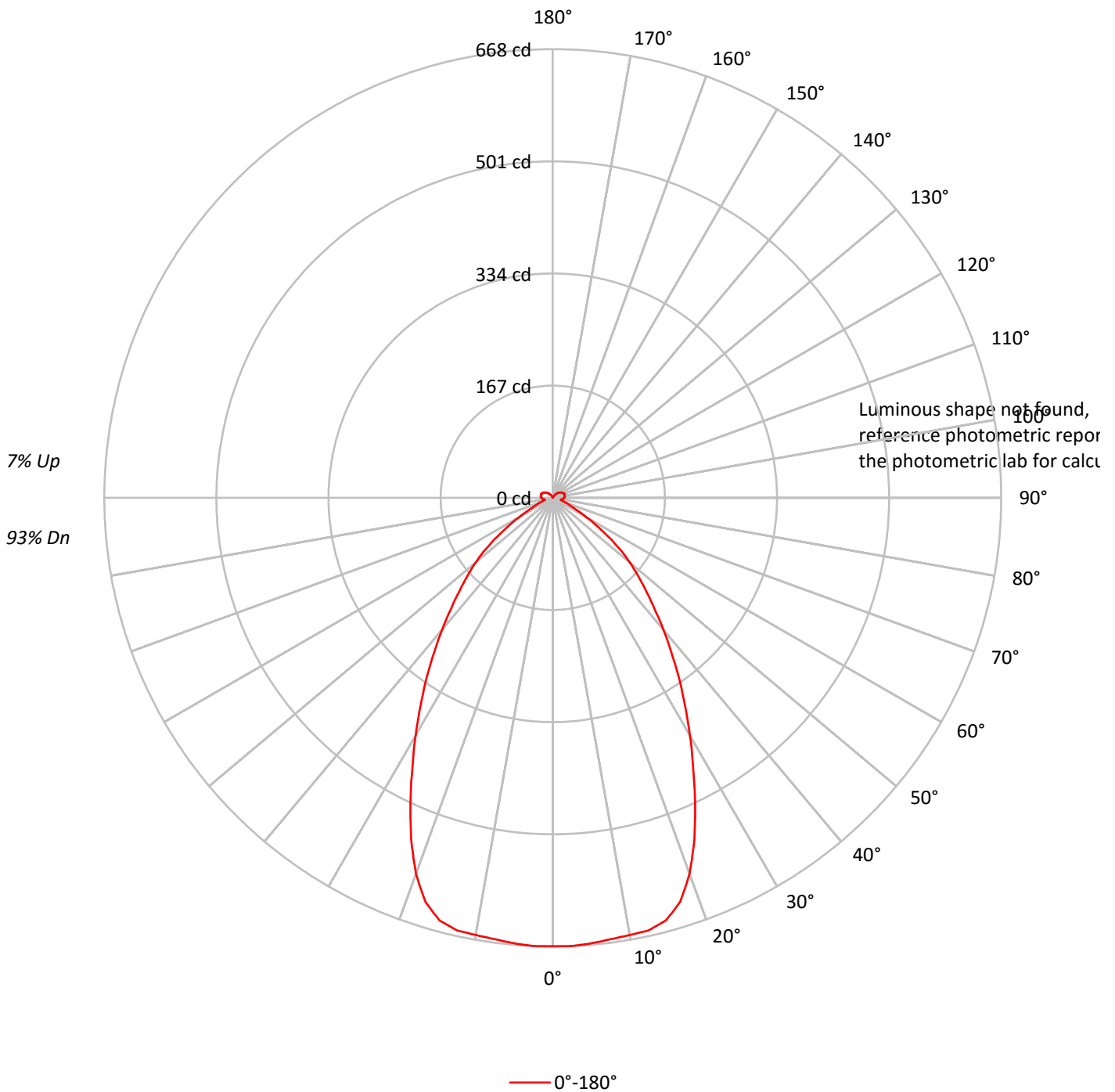
Summary

Lumens per Lamp: 2400 (1 lamp)
Luminaire Lumens: 1068.5 lumens
Efficiency: 44.5%
Efficacy: 31.4 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.02
Luminous Opening: (L: 0 ' x W: -1.17 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 34
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: 19438
CATALOG NUMBER: 464-CF1/32

Luminous Intensity Polar Plot



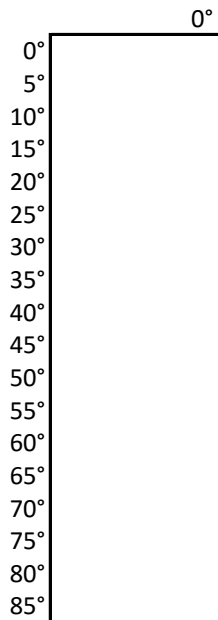


TEST NUMBER: 19438
 CATALOG NUMBER: 464-CF1/32

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	52	52	52	52	51	51	51	51	48	48	48		45	45	45		42	42	42	41
1	49	47	46	44	47	46	44	43	43	42	41		41	40	39		39	38	38	37
2	45	43	40	38	44	42	39	38	39	38	36		38	36	35		36	35	34	33
3	42	39	36	33	41	38	35	33	36	34	32		34	33	31		33	31	30	29
4	39	35	32	30	38	34	32	29	33	31	29		32	30	28		30	29	27	26
5	37	32	29	27	36	32	29	26	30	28	26		29	27	25		28	26	25	24
6	34	30	26	24	34	29	26	24	28	25	23		27	25	23		26	24	22	22
7	32	27	24	22	31	27	24	22	26	23	21		25	23	21		24	22	20	20
8	30	25	22	20	30	25	22	20	24	21	19		23	21	19		23	20	19	18
9	29	23	20	18	28	23	20	18	22	20	18		22	19	18		21	19	17	17
10	27	22	19	17	26	22	19	17	21	18	17		20	18	16		20	18	16	15

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: 19438
 CATALOG NUMBER: 464-CF1/32

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	63.4	5.9	2.6
10°-20°	181.2	17.0	7.6
20°-30°	229.7	21.5	9.6
30°-40°	204.8	19.2	8.5
40°-50°	153.3	14.3	6.4
50°-60°	91.2	8.5	3.8
60°-70°	34.0	3.2	1.4
70°-80°	14.7	1.4	0.6
80°-90°	16.8	1.6	0.7
90°-100°	19.4	1.8	0.8
100°-110°	19.2	1.8	0.8
110°-120°	16.7	1.6	0.7
120°-130°	12.4	1.2	0.5
130°-140°	7.5	0.7	0.3
140°-150°	3.2	0.3	0.1
150°-160°	0.8	0.1	0.0
160°-170°	0.1	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-30°	474.3	44.4	19.8
0°-40°	679.1	63.6	28.3
0°-60°	923.6	86.4	38.5
0°-90°	989.1	92.6	41.2
90°-120°	55.2	5.2	2.3
90°-150°	78.3	7.3	3.3
90°-180°	79.0	7.4	3.3
0°-180°	1068.5	100.0	44.5

CANDELA DISTRIBUTION:

	0°	Flux
0°	668	
5°	666	63
15°	651	181
25°	502	230
35°	328	205
45°	197	153
55°	101	91
65°	32	34
75°	12	15
85°	16	12
90°	17	9
95°	18	15
105°	18	19
115°	17	17
125°	14	12
135°	10	7
145°	5	3
155°	2	1
165°	0	0
175°	0	0
180°	0	



TEST NUMBER: 19438
CATALOG NUMBER: 464-CF1/32

CANDELA DISTRIBUTION (FULL):

0°	
0°	667.7
2.5°	668.0
5°	665.8
7.5°	662.7
10°	660.9
12.5°	659.7
15°	651.3
17.5°	631.0
20°	595.5
22.5°	550.9
25°	501.6
27.5°	452.7
30°	408.7
32.5°	365.9
35°	327.8
37.5°	289.9
40°	256.2
42.5°	224.4
45°	197.1
47.5°	172.7
50°	150.1
52.5°	126.4
55°	101.3
57.5°	78.5
60°	58.0
62.5°	42.1
65°	31.7
67.5°	25.4
70°	19.8
72.5°	14.6
75°	12.4
77.5°	12.1
80°	13.4
82.5°	14.6
85°	15.6
87.5°	16.2
90°	16.8
92.5°	17.3
95°	18.0
97.5°	18.2
100°	18.2
102.5°	18.2
105°	18.3
107.5°	18.2
110°	17.8



TEST NUMBER: 19438
CATALOG NUMBER: 464-CF1/32

CANDELA DISTRIBUTION (continued):

	0°
112.5°	17.3
115°	16.8
117.5°	16.3
120°	15.5
122.5°	14.8
125°	14.0
127.5°	12.8
130°	11.8
132.5°	10.7
135°	9.7
137.5°	8.5
140°	7.2
142.5°	6.1
145°	4.8
147.5°	3.9
150°	3.1
152.5°	2.4
155°	1.6
157.5°	1.0
160°	0.5
162.5°	0.5
165°	0.5
167.5°	0.5
170°	0.5
172.5°	0.5
175°	0.5
177.5°	0.5
180°	0.5

(END OF REPORT)