

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: 19358

Luminaire Tested: **210-18-CF2/32**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 19358
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 210-18-CF2/32
Description: INTERIOR CEILING MOUNT LUMINAIRE WITH WHITE INTERIOR AND WHITE
PLASTIC BOWL
Light Source: TWO SYLVANIA 32 WATT CPFL LAMPS

CF32DT/E/841. LUMEN RATING = 4800 LMS.

Ballast/Driver: -

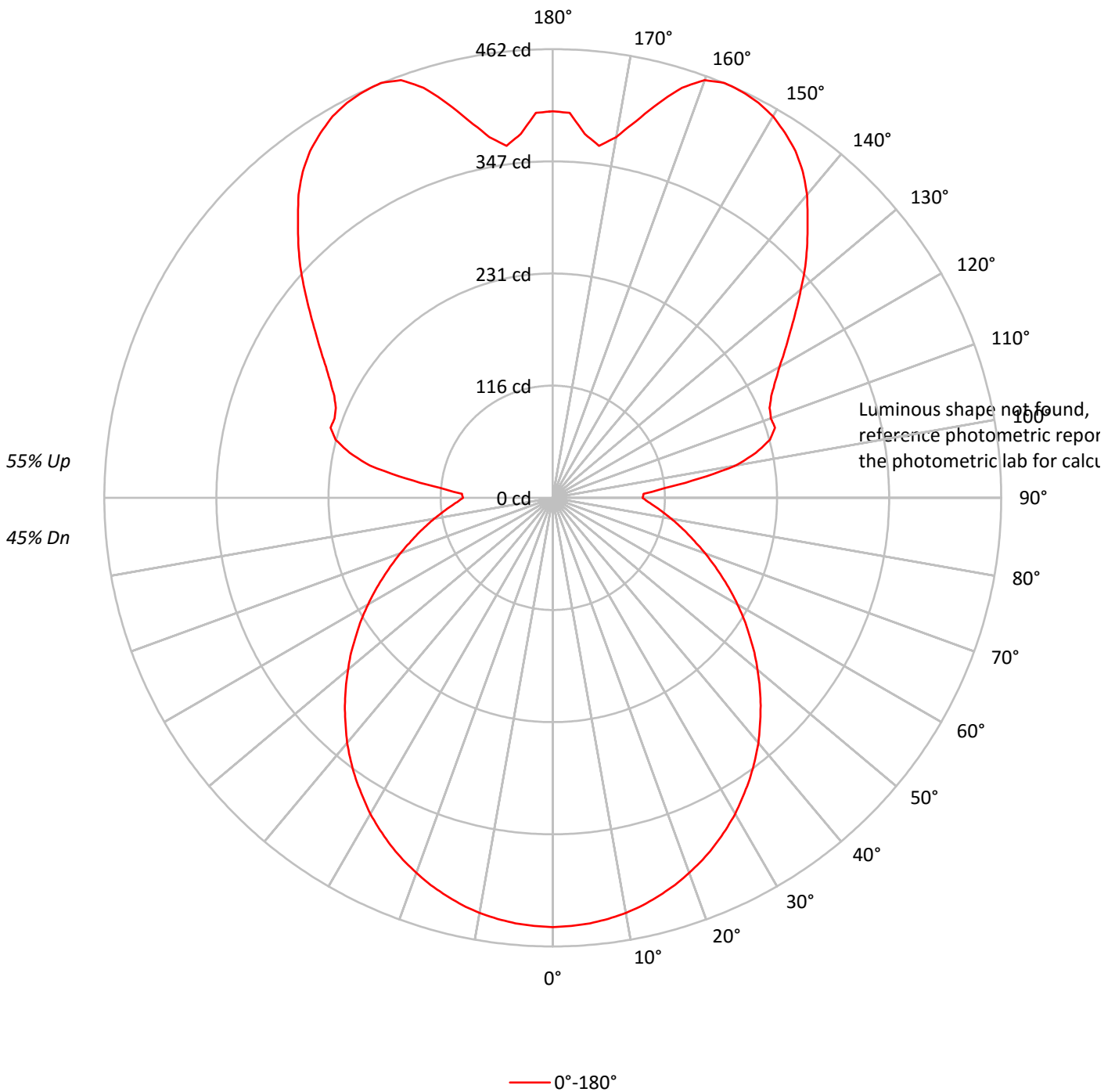
Summary

Lumens per Lamp: 4800 (1 lamp)
Luminaire Lumens: 3300.0 lumens
Efficiency: 68.8%
Efficacy: 53.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.39
Luminous Opening: (L: 0 ' x W: -0.08 ' x H: 0.46 '
CIE Type: General Diffuse

Input Watts (W): 62
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	73	73	73	73	67	67	67	67	55	55	55		45	45	45		35	35	35	31
1	65	62	59	56	60	57	54	52	47	45	43		38	37	35		30	29	28	24
2	59	54	49	45	54	49	45	42	41	38	35		33	31	29		26	24	23	19
3	54	47	42	37	49	43	38	35	36	32	29		29	26	24		22	21	19	16
4	49	41	36	31	45	38	33	29	31	28	25		25	23	20		20	18	16	13
5	45	37	31	27	41	34	29	25	28	24	21		23	20	17		18	16	14	12
6	41	33	27	23	38	30	25	21	25	21	18		20	17	15		16	14	12	10
7	38	30	24	20	35	27	22	19	23	19	16		19	16	13		15	12	11	9
8	35	27	21	18	32	25	20	16	21	17	14		17	14	12		13	11	10	8
9	33	24	19	16	30	22	18	15	19	15	13		16	13	11		12	10	9	7
10	31	22	17	14	28	21	16	13	17	14	11		14	11	9		11	9	8	6

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	41.8	1.3	0.9
10°-20°	119.7	3.6	2.5
20°-30°	182.0	5.5	3.8
30°-40°	221.3	6.7	4.6
40°-50°	233.8	7.1	4.9
50°-60°	221.7	6.7	4.6
60°-70°	191.0	5.8	4.0
70°-80°	152.7	4.6	3.2
80°-90°	116.6	3.5	2.4
90°-100°	137.2	4.2	2.9
100°-110°	238.2	7.2	5.0
110°-120°	248.6	7.5	5.2
120°-130°	268.5	8.1	5.6
130°-140°	286.3	8.7	6.0
140°-150°	271.9	8.2	5.7
150°-160°	212.6	6.4	4.4
160°-170°	120.1	3.6	2.5
170°-180°	35.9	1.1	0.7
0°-30°	343.6	10.4	7.2
0°-40°	564.9	17.1	11.8
0°-60°	1020.4	30.9	21.3
0°-90°	1480.7	44.9	30.8
90°-120°	624.0	18.9	13.0
90°-150°	1450.7	44.0	30.2
90°-180°	1819.0	55.1	37.9
0°-180°	3300.0	100.0	68.8

CANDELA DISTRIBUTION:

	0°	Flux
0°	442	
5°	440	42
15°	424	120
25°	395	182
35°	354	221
45°	303	234
55°	247	222
65°	192	191
75°	144	153
85°	106	90
90°	92	52
95°	116	112
105°	232	238
115°	248	249
125°	299	269
135°	371	286
145°	436	272
155°	461	213
165°	421	120
175°	376	36
180°	398	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	442.1
2.5°	441.2
5°	439.9
7.5°	437.3
10°	434.0
12.5°	429.7
15°	424.1
17.5°	418.1
20°	411.0
22.5°	403.4
25°	394.9
27.5°	385.6
30°	375.8
32.5°	364.6
35°	353.6
37.5°	341.8
40°	329.5
42.5°	316.1
45°	302.8
47.5°	289.3
50°	275.3
52.5°	261.8
55°	247.3
57.5°	233.9
60°	219.7
62.5°	206.1
65°	192.3
67.5°	179.3
70°	167.0
72.5°	154.9
75°	144.2
77.5°	133.6
80°	123.9
82.5°	114.6
85°	106.3
87.5°	98.4
90°	92.4
92.5°	93.7
95°	115.9
97.5°	152.2
100°	191.3
102.5°	214.4
105°	231.6
107.5°	240.1
110°	239.1

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	241.8
115°	248.3
117.5°	258.2
120°	269.6
122.5°	283.8
125°	298.6
127.5°	315.6
130°	333.7
132.5°	352.9
135°	370.7
137.5°	388.4
140°	407.4
142.5°	423.2
145°	435.8
147.5°	445.5
150°	453.5
152.5°	458.7
155°	461.4
157.5°	462.4
160°	457.7
162.5°	442.7
165°	420.7
167.5°	397.3
170°	377.1
172.5°	365.5
175°	376.1
177.5°	396.8
180°	397.9

(END OF REPORT)