

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: 13365A

Luminaire Tested: **476-CF1/32-120SSB-NA-24"OA**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 13365A
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 476-CF1/32-120SSB-NA-24"OA
Description: OPEN FIXTURE WITH BRUSHED ALUMINIUM BAFFLE RINGS

Light Source: ONE 32 WATT CPFL LAMP. LUMEN RATING = 2400 LMS.

Ballast/Driver: -

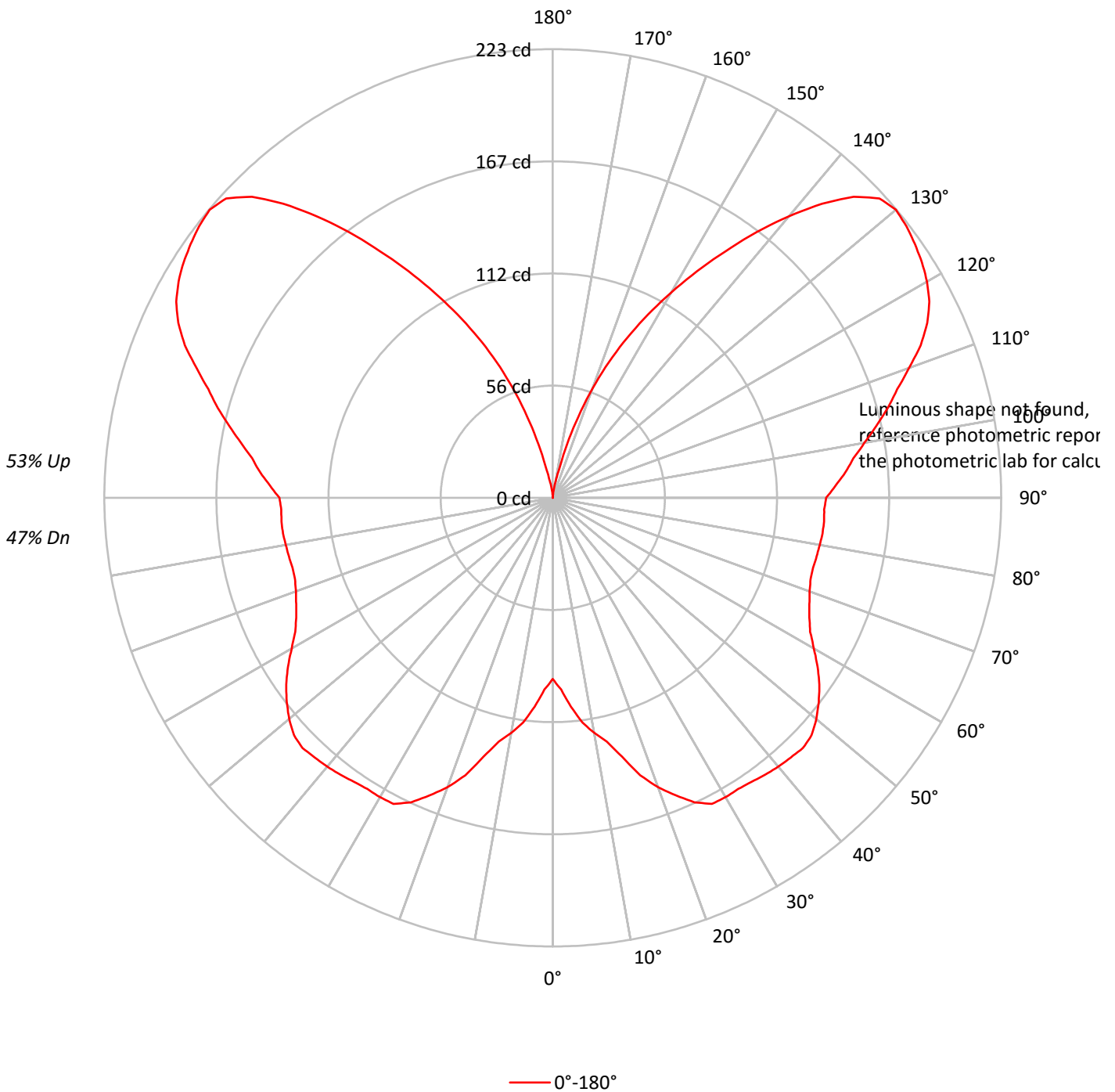
Summary

Lumens per Lamp: 2400 (1 lamp)
Luminaire Lumens: 1992.8 lumens
Efficiency: 83.0%
Efficacy: -
Spacing Criteria (0/90/45): 2.39 / 2.39 / 2.28
Luminous Opening: (L: 0 ' x W: -0.38 ' x H: 0.08 '
CIE Type: General Diffuse

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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	88	88	88	88	81	81	81	81	68	68	68	56	56	56	45	45	45	39
1	78	73	69	65	71	67	63	60	55	52	50	45	42	40	35	33	32	27
2	70	62	56	51	63	57	51	47	47	43	39	38	34	32	29	27	25	21
3	63	54	47	41	57	49	43	38	40	36	32	32	29	26	25	22	20	16
4	57	47	39	34	52	43	36	31	35	30	26	28	24	21	22	19	16	13
5	52	41	34	28	47	38	31	26	31	26	22	25	21	18	19	16	14	11
6	48	37	29	24	43	34	27	22	28	23	19	22	18	15	17	14	12	9
7	44	33	26	21	40	30	24	19	25	20	16	20	16	13	16	12	10	8
8	41	30	23	18	37	27	21	17	23	18	14	18	14	11	14	11	9	7
9	38	27	20	16	34	25	19	15	21	16	12	17	13	10	13	10	8	6
10	35	25	18	14	32	23	17	13	19	14	11	15	12	9	12	9	7	5

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	10.4	0.5	0.4
10°-20°	38.6	1.9	1.6
20°-30°	76.8	3.9	3.2
30°-40°	108.5	5.4	4.5
40°-50°	135.2	6.8	5.6
50°-60°	144.5	7.3	6.0
60°-70°	140.4	7.0	5.8
70°-80°	142.3	7.1	5.9
80°-90°	147.6	7.4	6.2
90°-100°	159.4	8.0	6.6
100°-110°	182.3	9.1	7.6
110°-120°	202.4	10.2	8.4
120°-130°	196.9	9.9	8.2
130°-140°	161.7	8.1	6.7
140°-150°	95.0	4.8	4.0
150°-160°	41.5	2.1	1.7
160°-170°	9.0	0.5	0.4
170°-180°	0.4	0.0	0.0
0°-30°	125.8	6.3	5.2
0°-40°	234.3	11.8	9.8
0°-60°	514.0	25.8	21.4
0°-90°	944.3	47.4	39.3
90°-120°	544.0	27.3	22.7
90°-150°	997.6	50.1	41.6
90°-180°	1048.0	52.6	43.7
0°-180°	1992.8	100.0	83.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	90	
5°	104	10
15°	133	39
25°	167	77
35°	172	108
45°	176	135
55°	162	145
65°	141	140
75°	134	142
85°	135	110
90°	136	75
95°	146	121
105°	172	182
115°	206	202
125°	220	197
135°	212	162
145°	149	95
155°	88	41
165°	27	9
175°	2	0
180°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	90.0
2.5°	95.4
5°	104.2
7.5°	112.6
10°	118.6
12.5°	124.1
15°	133.1
17.5°	144.6
20°	153.1
22.5°	160.1
25°	167.0
27.5°	171.5
30°	171.8
32.5°	171.6
35°	172.3
37.5°	173.5
40°	174.4
42.5°	175.1
45°	175.9
47.5°	174.6
50°	171.1
52.5°	166.7
55°	161.8
57.5°	156.1
60°	149.9
62.5°	144.3
65°	140.7
67.5°	138.1
70°	135.9
72.5°	134.4
75°	134.0
77.5°	134.4
80°	134.8
82.5°	135.3
85°	135.4
87.5°	135.1
90°	135.9
92.5°	140.8
95°	146.1
97.5°	150.8
100°	157.4
102.5°	164.7
105°	172.4
107.5°	179.6
110°	188.5



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	198.0
115°	205.5
117.5°	211.1
120°	214.9
122.5°	217.7
125°	219.8
127.5°	221.7
130°	222.7
132.5°	220.3
135°	211.6
137.5°	198.3
140°	182.7
142.5°	166.5
145°	149.4
147.5°	133.6
150°	117.7
152.5°	102.7
155°	87.9
157.5°	73.1
160°	57.8
162.5°	42.3
165°	27.3
167.5°	14.1
170°	8.4
172.5°	5.1
175°	1.8
177.5°	0.2
180°	0.0

(END OF REPORT)