

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: 19857

Luminaire Tested: **482-12"-D-CF4/55-HAL1/150**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 19857
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 482-12"-D-CF4/55-HAL1/150
Description: INTERIOR SUSPENDED LUMINAIRE WITH WHITE INTERIOR AND WHITE PLASTIC
CYLINDER LENS
Light Source: 4-55W CPFL & 1-150W HAL LAMP

DL55/41 & 150PAR38. LUMEN RATING = 23200 LMS.

Ballast/Driver: -

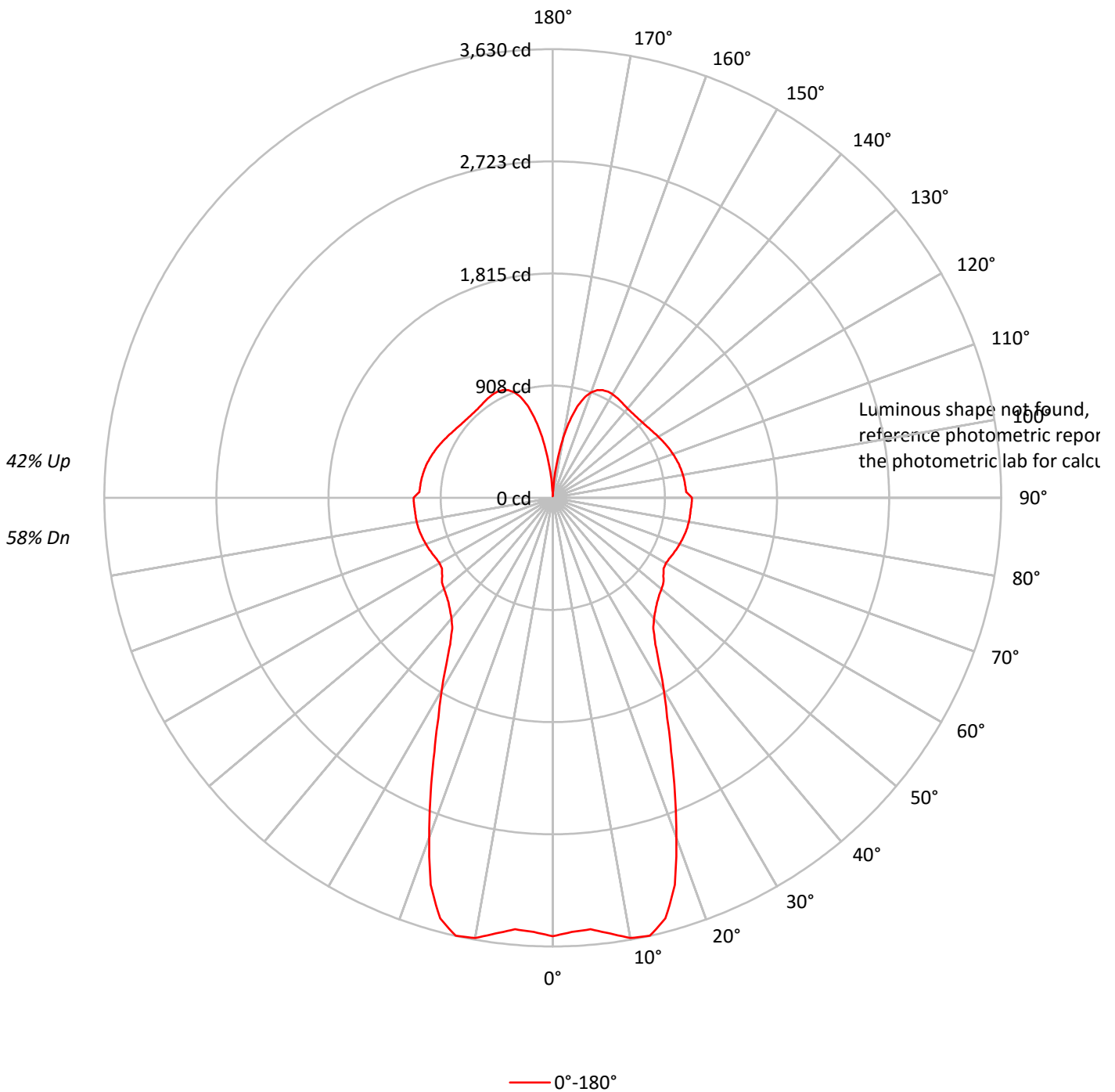
Summary

Lumens per Lamp: 23200 (1 lamp)
Luminaire Lumens: 14832.3 lumens
Efficiency: 63.9%
Efficacy: 40.2 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.94
Luminous Opening: (L: 0' x W: -1' x H: 2.17'
CIE Type: General Diffuse

Input Watts (W): 369
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	70	70	70	70	65	65	65	65	56	56	56		48	48	48		41	41	41	37
1	62	58	54	51	57	54	51	48	46	44	42		39	37	36		33	31	30	27
2	55	50	45	41	51	46	42	38	40	36	33		34	31	29		28	26	24	21
3	50	43	38	34	47	40	36	32	35	31	28		29	26	24		25	22	20	18
4	46	38	33	28	43	36	31	27	31	27	24		26	23	21		22	20	17	15
5	42	34	29	24	39	32	27	23	28	24	20		24	20	18		20	17	15	13
6	39	31	25	21	36	29	24	20	25	21	18		22	18	16		18	16	14	12
7	36	28	23	19	34	26	21	18	23	19	16		20	17	14		17	14	12	11
8	34	26	20	17	31	24	19	16	21	17	14		18	15	13		16	13	11	10
9	32	24	19	15	29	22	18	14	19	16	13		17	14	12		15	12	10	9
10	30	22	17	14	28	20	16	13	18	14	12		16	13	11		14	11	9	8

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	338.9	2.3	1.5
10°-20°	961.5	6.5	4.1
20°-30°	1050.6	7.1	4.5
30°-40°	923.8	6.2	4.0
40°-50°	929.0	6.3	4.0
50°-60°	983.6	6.6	4.2
60°-70°	1066.7	7.2	4.6
70°-80°	1172.0	7.9	5.1
80°-90°	1224.3	8.3	5.3
90°-100°	1181.1	8.0	5.1
100°-110°	1115.8	7.5	4.8
110°-120°	1004.7	6.8	4.3
120°-130°	866.4	5.8	3.7
130°-140°	729.7	4.9	3.1
140°-150°	599.7	4.0	2.6
150°-160°	441.5	3.0	1.9
160°-170°	215.6	1.5	0.9
170°-180°	27.4	0.2	0.1
0°-30°	2351.0	15.9	10.1
0°-40°	3274.8	22.1	14.1
0°-60°	5187.4	35.0	22.4
0°-90°	8650.3	58.3	37.3
90°-120°	3301.6	22.3	14.2
90°-150°	5497.4	37.1	23.7
90°-180°	6182.0	41.7	26.6
0°-180°	14832.3	100.0	63.9

CANDELA DISTRIBUTION:

	0°	Flux
0°	3546	
5°	3504	339
15°	3523	961
25°	2266	1051
35°	1448	924
45°	1195	929
55°	1093	984
65°	1074	1067
75°	1109	1172
85°	1121	916
90°	1127	611
95°	1077	879
105°	1056	1116
115°	1012	1005
125°	964	866
135°	940	730
145°	956	600
155°	960	441
165°	763	216
175°	179	27
180°	13	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3546.2
2.5°	3516.3
5°	3504.5
7.5°	3554.6
10°	3616.0
12.5°	3629.5
15°	3523.1
17.5°	3283.7
20°	2926.7
22.5°	2579.7
25°	2265.5
27.5°	2004.7
30°	1798.1
32.5°	1603.8
35°	1448.0
37.5°	1335.4
40°	1274.6
42.5°	1230.3
45°	1194.8
47.5°	1168.4
50°	1148.9
52.5°	1129.2
55°	1092.9
57.5°	1063.9
60°	1057.8
62.5°	1063.9
65°	1074.0
67.5°	1083.9
70°	1093.4
72.5°	1101.3
75°	1109.0
77.5°	1114.9
80°	1118.4
82.5°	1120.0
85°	1121.0
87.5°	1124.8
90°	1126.7
92.5°	1080.6
95°	1077.3
97.5°	1074.2
100°	1069.3
102.5°	1063.8
105°	1055.8
107.5°	1046.5
110°	1035.2



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	1024.6
115°	1012.2
117.5°	999.6
120°	986.9
122.5°	974.8
125°	964.0
127.5°	955.0
130°	947.8
132.5°	943.0
135°	940.4
137.5°	940.1
140°	942.5
142.5°	948.0
145°	955.5
147.5°	962.1
150°	967.6
152.5°	967.6
155°	960.5
157.5°	942.3
160°	908.8
162.5°	850.7
165°	762.8
167.5°	640.3
170°	500.6
172.5°	336.2
175°	178.7
177.5°	54.7
180°	12.9

(END OF REPORT)