

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: 18162

Luminaire Tested: **482-30-D-CF4/40**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 18162
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 482-30-D-CF4/40
Description: PENDANT LUMINAIRE WITH PAR LAMP ON WITH WHITE BALLAST HOUSING
AND WHITE PLASTIC LENS
Light Source: 4 GE 40W CPFL LAMPS & 1 150W INC

F40BX/SPX35. LUMEN RATING = 14300 LMS.

Ballast/Driver: -

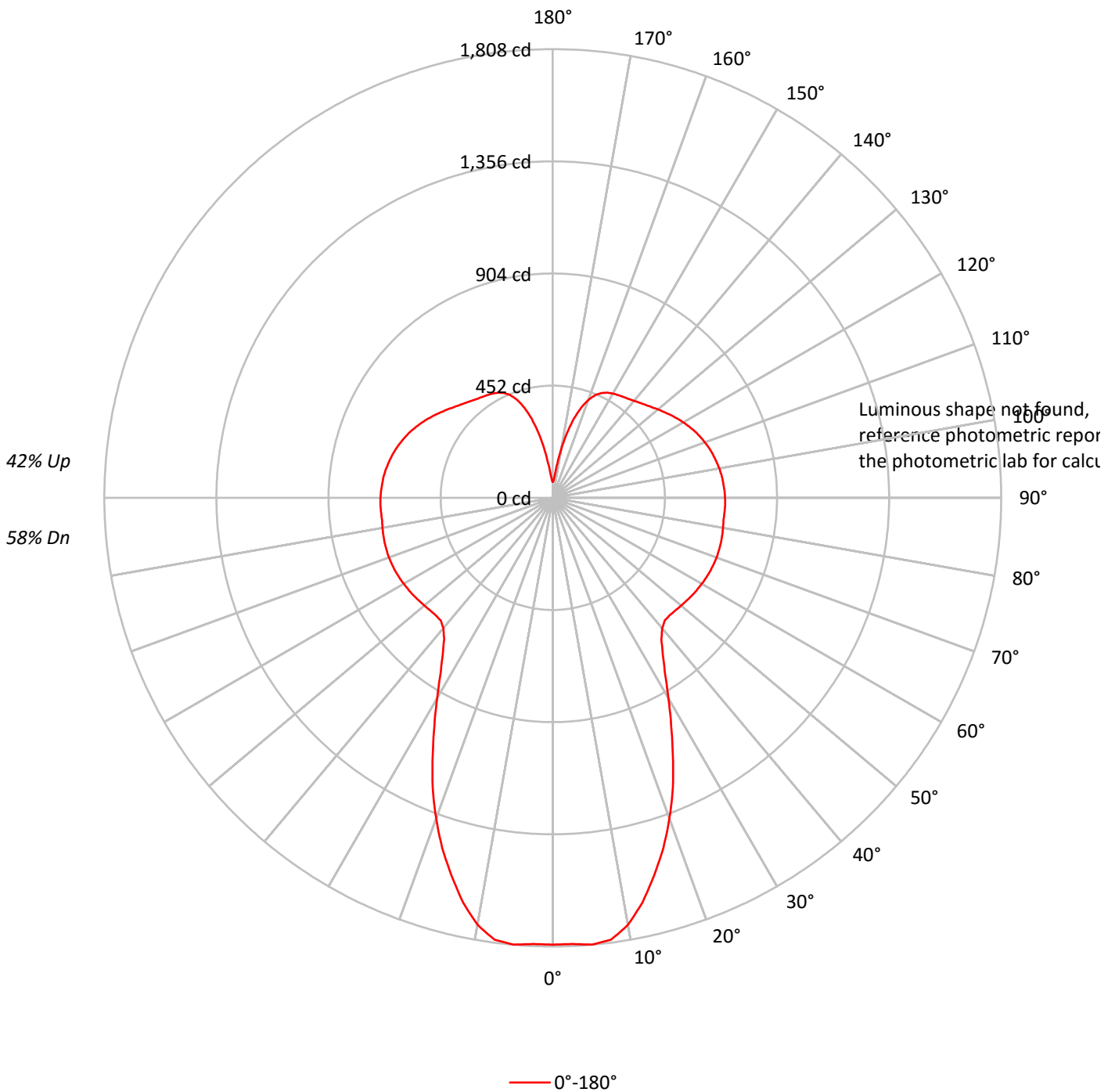
Summary

Lumens per Lamp: 14300 (1 lamp)
Luminaire Lumens: 8609.5 lumens
Efficiency: 60.2%
Efficacy: 28.5 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.96
Luminous Opening: (L: 0' x W: -1' x H: 2.5'
CIE Type: General Diffuse

Input Watts (W): 302
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



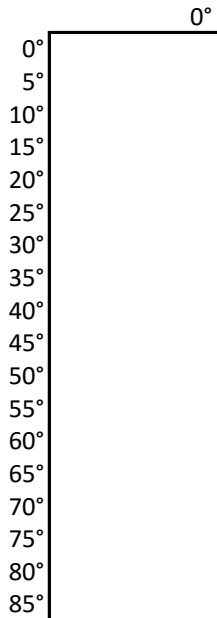


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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	66	66	66	66	61	61	61	61	53	53	53	45	45	45	38	38	38	35
1	58	54	51	48	53	50	47	44	43	40	38	36	34	33	30	29	27	24
2	52	46	41	37	48	43	39	35	36	33	30	31	28	26	25	23	22	19
3	47	40	35	31	43	37	32	29	32	28	25	27	24	21	22	20	18	15
4	43	35	30	26	39	33	28	24	28	24	21	24	21	18	19	17	15	13
5	39	31	26	22	36	29	24	21	25	21	18	21	18	16	18	15	13	11
6	36	28	23	19	33	26	21	18	23	19	16	19	16	14	16	13	12	10
7	33	25	20	17	31	24	19	16	21	17	14	18	14	12	15	12	10	9
8	31	23	18	15	29	22	17	14	19	15	12	16	13	11	14	11	9	8
9	29	21	16	13	27	20	16	13	17	14	11	15	12	10	13	10	8	7
10	27	20	15	12	25	18	14	11	16	13	10	14	11	9	12	9	8	7

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	170.8	2.0	1.2
10°-20°	440.2	5.1	3.1
20°-30°	525.8	6.1	3.7
30°-40°	490.5	5.7	3.4
40°-50°	520.6	6.0	3.6
50°-60°	614.7	7.1	4.3
60°-70°	694.0	8.1	4.9
70°-80°	741.5	8.6	5.2
80°-90°	758.3	8.8	5.3
90°-100°	752.2	8.7	5.3
100°-110°	707.3	8.2	4.9
110°-120°	627.3	7.3	4.4
120°-130°	521.6	6.1	3.6
130°-140°	411.1	4.8	2.9
140°-150°	312.3	3.6	2.2
150°-160°	214.2	2.5	1.5
160°-170°	94.7	1.1	0.7
170°-180°	12.4	0.1	0.1
0°-30°	1136.8	13.2	7.9
0°-40°	1627.3	18.9	11.4
0°-60°	2762.6	32.1	19.3
0°-90°	4956.4	57.6	34.7
90°-120°	2086.7	24.2	14.6
90°-150°	3331.7	38.7	23.3
90°-180°	3653.0	42.4	25.5
0°-180°	8609.5	100.0	60.2

CANDELA DISTRIBUTION:

	0°	Flux
0°	1801	
5°	1808	171
15°	1576	440
25°	1145	526
35°	773	491
45°	668	521
55°	685	615
65°	700	694
75°	702	741
85°	695	568
90°	694	381
95°	690	562
105°	669	707
115°	633	627
125°	581	522
135°	529	411
145°	496	312
155°	466	214
165°	331	95
175°	89	12
180°	64	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1800.6
2.5°	1799.5
5°	1807.6
7.5°	1796.2
10°	1747.2
12.5°	1670.4
15°	1576.2
17.5°	1480.7
20°	1375.0
22.5°	1265.7
25°	1144.8
27.5°	1033.6
30°	931.2
32.5°	842.1
35°	772.8
37.5°	718.9
40°	686.1
42.5°	669.2
45°	668.1
47.5°	671.1
50°	675.6
52.5°	680.5
55°	685.3
57.5°	689.5
60°	693.5
62.5°	697.0
65°	699.9
67.5°	701.6
70°	702.7
72.5°	702.5
75°	701.6
77.5°	699.6
80°	697.0
82.5°	694.1
85°	694.7
87.5°	695.4
90°	694.5
92.5°	692.6
95°	689.9
97.5°	686.9
100°	681.7
102.5°	675.8
105°	669.1
107.5°	661.7
110°	652.7



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	643.2
115°	632.6
117.5°	620.4
120°	608.0
122.5°	594.6
125°	581.0
127.5°	567.1
130°	553.8
132.5°	540.6
135°	529.4
137.5°	519.3
140°	510.0
142.5°	502.2
145°	496.1
147.5°	490.7
150°	484.9
152.5°	477.6
155°	466.0
157.5°	447.9
160°	420.2
162.5°	381.0
165°	330.9
167.5°	268.8
170°	202.4
172.5°	139.8
175°	89.4
177.5°	67.9
180°	64.2

(END OF REPORT)