

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: 16795

Luminaire Tested: **449-36-CF6/40-120SSB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 16795
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 449-36-CF6/40-120SSB
Description: PENDANT MOUNT LUMINAIRE WITH WHITE INTERIOR AND WHITE PLASTIC BOWL

Light Source: SIX SYLVANIA 40 WATT CPFL LAMPS

FT40DL/841. LUMEN RATING = 18900 LMS.

Ballast/Driver: -

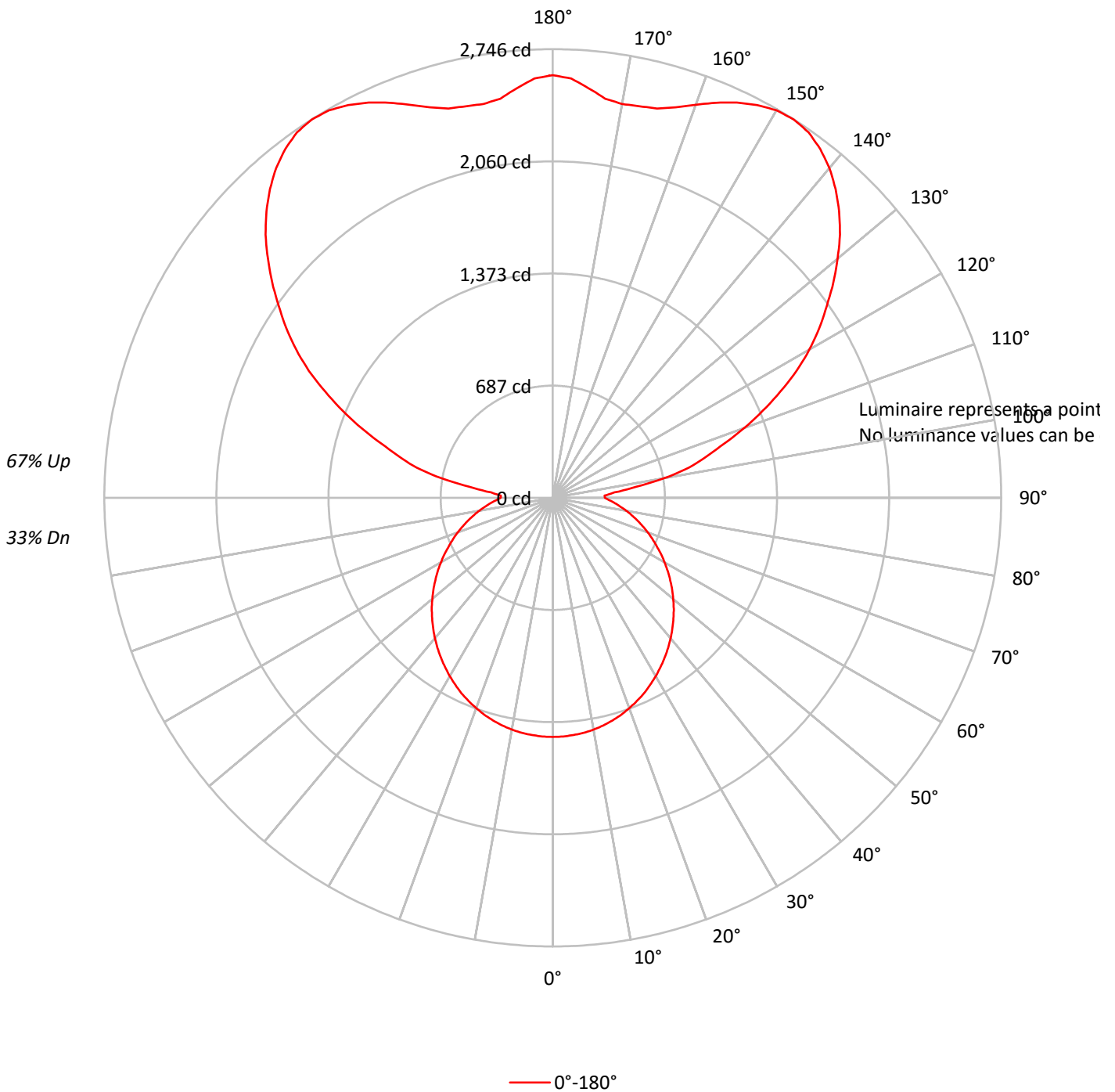
Summary

Lumens per Lamp: 18900 (1 lamp)
Luminaire Lumens: 15812.4 lumens
Efficiency: 83.7%
Efficacy: 81.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.42
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Semi-Indirect

Input Watts (W): 195
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: 16795
CATALOG NUMBER: 449-36-CF6/40-120SSB

Luminous Intensity Polar Plot





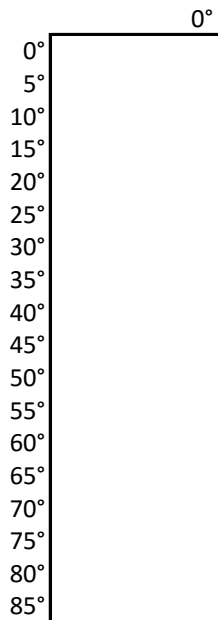
TEST NUMBER: 16795

CATALOG NUMBER: 449-36-CF6/40-120SSB

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	86	86	86	86	78	78	78	78	62	62	62	47	47	47	34	34	34	27
1	78	74	70	67	70	66	63	61	53	50	48	40	38	37	28	27	26	21
2	70	64	58	54	63	57	53	49	45	42	39	34	32	30	24	23	22	17
3	64	56	49	44	57	50	45	40	40	36	33	30	27	25	21	19	18	14
4	58	49	42	37	52	44	38	34	35	31	27	27	24	21	19	17	15	12
5	53	43	37	32	48	39	33	29	31	27	23	24	21	18	17	15	13	10
6	49	39	32	27	44	35	29	25	28	24	20	21	18	16	15	13	11	9
7	45	35	28	24	40	32	26	22	25	21	18	19	16	14	14	12	10	8
8	42	31	25	21	37	29	23	19	23	19	16	18	14	12	13	10	9	7
9	39	29	22	18	35	26	20	17	21	17	14	16	13	11	12	10	8	6
10	36	26	20	16	32	24	18	15	19	15	12	15	12	10	11	9	7	5

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: 16795

CATALOG NUMBER: 449-36-CF6/40-120SSB

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	138.6	0.9	0.7
10°-20°	398.4	2.5	2.1
20°-30°	608.7	3.8	3.2
30°-40°	747.9	4.7	4.0
40°-50°	806.8	5.1	4.3
50°-60°	785.7	5.0	4.2
60°-70°	697.6	4.4	3.7
70°-80°	567.4	3.6	3.0
80°-90°	419.5	2.7	2.2
90°-100°	468.4	3.0	2.5
100°-110°	1028.1	6.5	5.4
110°-120°	1520.9	9.6	8.0
120°-130°	1834.2	11.6	9.7
130°-140°	1909.8	12.1	10.1
140°-150°	1703.3	10.8	9.0
150°-160°	1234.2	7.8	6.5
160°-170°	705.2	4.5	3.7
170°-180°	237.7	1.5	1.3
0°-30°	1145.7	7.2	6.1
0°-40°	1893.6	12.0	10.0
0°-60°	3486.1	22.0	18.4
0°-90°	5170.6	32.7	27.4
90°-120°	3017.4	19.1	16.0
90°-150°	8464.7	53.5	44.8
90°-180°	10642.0	67.3	56.3
0°-180°	15812.4	100.0	83.7

CANDELA DISTRIBUTION:

	0°	Flux
0°	1463	
5°	1458	139
15°	1411	398
25°	1321	609
35°	1195	748
45°	1044	807
55°	878	786
65°	703	698
75°	537	567
85°	383	328
90°	319	179
95°	380	381
105°	972	1028
115°	1538	1521
125°	2048	1834
135°	2479	1910
145°	2730	1703
155°	2669	1234
165°	2467	705
175°	2516	238
180°	2586	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1463.3
2.5°	1461.9
5°	1457.6
7.5°	1450.7
10°	1440.4
12.5°	1427.6
15°	1411.0
17.5°	1392.2
20°	1370.0
22.5°	1346.3
25°	1320.6
27.5°	1291.0
30°	1260.7
32.5°	1227.7
35°	1194.7
37.5°	1158.7
40°	1122.9
42.5°	1083.7
45°	1044.4
47.5°	1005.0
50°	962.2
52.5°	920.6
55°	877.5
57.5°	835.1
60°	790.7
62.5°	747.2
65°	702.6
67.5°	660.9
70°	619.3
72.5°	576.8
75°	536.7
77.5°	495.6
80°	457.6
82.5°	419.1
85°	383.2
87.5°	347.9
90°	319.1
92.5°	317.7
95°	380.0
97.5°	514.6
100°	695.0
102.5°	855.0
105°	972.3
107.5°	1097.2
110°	1245.9



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	1392.3
115°	1537.5
117.5°	1683.5
120°	1814.2
122.5°	1935.6
125°	2048.0
127.5°	2166.2
130°	2276.8
132.5°	2385.5
135°	2479.3
137.5°	2563.0
140°	2635.1
142.5°	2690.6
145°	2730.4
147.5°	2745.8
150°	2738.6
152.5°	2709.4
155°	2668.6
157.5°	2617.3
160°	2560.0
162.5°	2505.5
165°	2466.6
167.5°	2454.0
170°	2447.0
172.5°	2463.6
175°	2516.1
177.5°	2568.6
180°	2586.5

(END OF REPORT)