

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: ITL43932

Luminaire Tested: **499-36-CF6-40**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: ITL43932
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 499-36-CF6-40
Description: LUMINOUS PENDANT
Light Source: 6-F40TT 18,900 LUMENS
Ballast/Driver: -

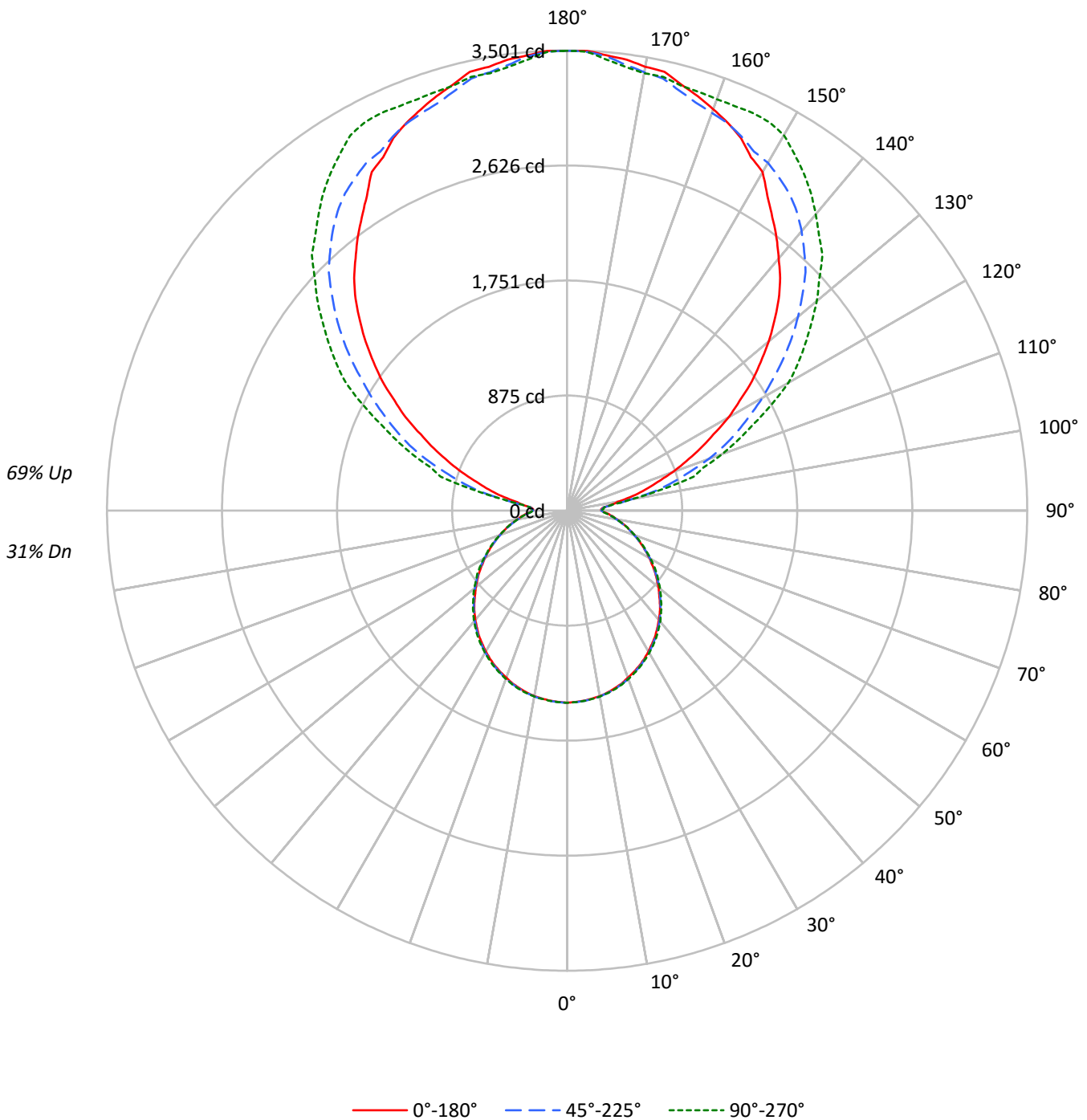
Summary

Lumens per Lamp: 3150 (6 lamps)
Luminaire Lumens: 15862.4 lumens
Efficiency: 83.9%
Efficacy: 75.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.4
Luminous Opening: (L: 0 ' x W: -3.02 ' x H: 1 '
CIE Type: Semi-Indirect

Input Watts (W): 209
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	86	86	86	86	77	77	77	77	61	61	61	46	46	46	32	32	32	26
1	78	74	70	67	70	66	63	61	52	50	48	39	38	37	27	26	26	20
2	70	64	59	54	63	58	53	49	45	42	39	34	32	30	24	22	21	16
3	64	56	50	45	57	50	45	41	40	36	33	30	27	25	21	19	18	14
4	58	49	43	38	52	44	39	34	35	31	28	26	24	21	18	16	15	11
5	53	44	37	32	48	39	34	29	31	27	24	24	21	18	16	14	13	10
6	49	39	32	27	44	35	29	25	28	24	20	21	18	16	15	13	11	8
7	45	35	28	24	40	32	26	22	25	21	18	19	16	14	13	11	10	7
8	42	32	25	21	37	29	23	19	23	19	16	17	14	12	12	10	9	7
9	39	29	23	18	35	26	21	17	21	17	14	16	13	11	11	9	8	6
10	36	26	20	16	32	24	19	15	19	15	12	15	12	10	10	9	7	5

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	Luminous shape not found,		
5°	reference photometric report, or contact		
10°	the photometric lab for calculations.		
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	138.3	0.9	0.7
10°-20°	396.9	2.5	2.1
20°-30°	604.2	3.8	3.2
30°-40°	737.2	4.6	3.9
40°-50°	780.4	4.9	4.1
50°-60°	740.4	4.7	3.9
60°-70°	633.7	4.0	3.4
70°-80°	492.6	3.1	2.6
80°-90°	347.5	2.2	1.8
90°-100°	356.4	2.2	1.9
100°-110°	875.8	5.5	4.6
110°-120°	1408.9	8.9	7.5
120°-130°	1796.4	11.3	9.5
130°-140°	1963.0	12.4	10.4
140°-150°	1848.7	11.7	9.8
150°-160°	1470.5	9.3	7.8
160°-170°	942.7	5.9	5.0
170°-180°	328.7	2.1	1.7
0°-30°	1139.5	7.2	6.0
0°-40°	1876.7	11.8	9.9
0°-60°	3397.5	21.4	18.0
0°-90°	4871.4	30.7	25.8
90°-120°	2641.1	16.7	14.0
90°-150°	8249.1	52.0	43.6
90°-180°	10991.0	69.3	58.2
0°-180°	15862.4	100.0	83.9

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1462	1462	1462	1462	1462	
5°	1453	1457	1455	1456	1454	138
15°	1399	1409	1405	1410	1407	395
25°	1301	1314	1308	1317	1312	600
35°	1167	1180	1173	1187	1181	729
45°	998	1014	1006	1019	1012	770
55°	816	829	820	839	833	729
65°	631	645	631	646	639	626
75°	463	471	457	470	463	489
85°	318	324	310	318	310	273
90°	260	264	259	260	259	145
95°	276	292	280	296	284	257
105°	616	802	835	944	997	652
115°	1118	1341	1434	1568	1572	1111
125°	1718	1929	2006	2139	2212	1529
135°	2277	2476	2565	2678	2747	1750
145°	2723	2881	2946	3067	3136	1709
155°	3128	3132	3140	3233	3339	1438
165°	3355	3339	3306	3322	3347	948
175°	3476	3480	3468	3460	3444	331
180°	3499	3499	3499	3499	3499	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1462	1462	1462	1462	1462
2.5°	1457	1461	1459	1459	1459
5°	1453	1457	1455	1456	1454
7.5°	1443	1449	1446	1449	1446
10°	1433	1438	1436	1438	1437
12.5°	1418	1425	1421	1425	1423
15°	1399	1409	1405	1410	1407
17.5°	1379	1389	1384	1390	1387
20°	1352	1365	1361	1368	1363
22.5°	1328	1338	1334	1342	1338
25°	1301	1314	1308	1317	1312
27.5°	1271	1284	1277	1287	1281
30°	1237	1250	1247	1255	1250
32.5°	1202	1216	1211	1223	1216
35°	1167	1180	1173	1187	1181
37.5°	1126	1140	1135	1147	1141
40°	1086	1098	1094	1109	1102
42.5°	1044	1057	1049	1064	1058
45°	998	1014	1006	1019	1012
47.5°	950	967	959	974	968
50°	907	921	915	929	923
52.5°	860	876	868	881	874
55°	816	829	820	839	833
57.5°	767	784	775	788	783
60°	723	737	727	741	733
62.5°	675	689	678	692	685
65°	631	645	631	646	639
67.5°	587	600	585	599	594
70°	544	554	542	553	546
72.5°	502	515	500	511	502
75°	463	471	457	470	463
77.5°	422	434	419	427	420
80°	384	393	381	390	381
82.5°	352	359	345	353	346
85°	318	324	310	318	310
87.5°	282	291	278	284	277
90°	260	264	259	260	259
92.5°	259	267	267	271	276
95°	276	292	280	296	284
97.5°	340	397	361	385	348
100°	397	515	498	543	502
102.5°	511	673	685	786	729
105°	616	802	835	944	997
107.5°	721	924	976	1066	1086
110°	851	1074	1143	1244	1256



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	981	1199	1297	1390	1410
115°	1118	1341	1434	1568	1572
117.5°	1256	1483	1568	1738	1758
120°	1418	1629	1714	1872	1945
122.5°	1556	1779	1852	2002	2083
125°	1718	1929	2006	2139	2212
127.5°	1856	2079	2152	2277	2342
130°	2002	2200	2293	2419	2480
132.5°	2139	2338	2427	2540	2601
135°	2277	2476	2565	2678	2747
137.5°	2399	2577	2670	2780	2836
140°	2504	2690	2775	2877	2942
142.5°	2617	2792	2869	2982	3047
145°	2723	2881	2946	3067	3136
147.5°	2836	2962	3002	3148	3217
150°	2974	3039	3055	3213	3298
152.5°	3031	3075	3079	3217	3331
155°	3128	3132	3140	3233	3339
157.5°	3193	3193	3189	3233	3331
160°	3250	3245	3221	3270	3331
162.5°	3306	3294	3254	3294	3339
165°	3355	3339	3306	3322	3347
167.5°	3420	3399	3367	3379	3379
170°	3428	3424	3387	3387	3379
172.5°	3460	3452	3420	3416	3404
175°	3476	3480	3468	3460	3444
177.5°	3501	3497	3493	3493	3493
180°	3499	3499	3499	3499	3499

(END OF REPORT)