

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: 17242

Luminaire Tested: **AP-WP-2T5**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 17242  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: AP-WP-2T5  
Description: WITH WHITE INTERIOR AND WHITE LENS OVER PERFORATIONS  
  
Light Source: TWO SYLVANIA 54 WATT T5 LAMPS  
  
FP54/841/HO. LUMEN RATING = 4500 LMS.  
  
Ballast/Driver: -

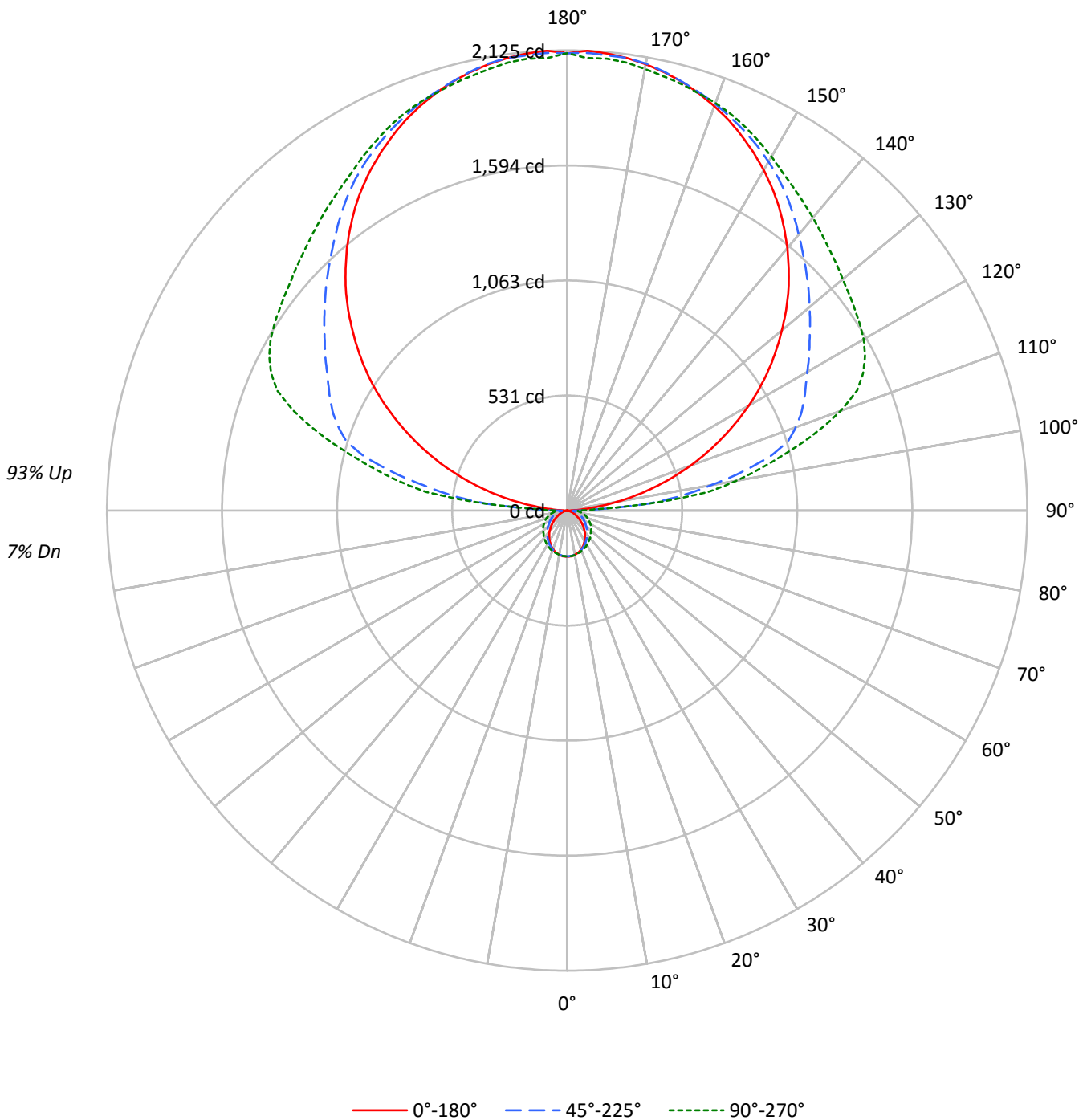
**Summary**

Lumens per Lamp: 4500 (2 lamps)  
Luminaire Lumens: 8226.4 lumens  
Efficiency: 91.4%  
Efficacy: 68.6 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.29 / 1.32  
Luminous Opening: Rectangular w/ Sides (W: 0.48' x L: 3.67' x H: 0.14')  
CIE Type: Indirect  
  
Input Watts (W): 120  
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	89	89	89	89	77	77	77	77	55	55	55	34	34	34	16	16	16	7
1	81	77	73	70	70	67	64	61	47	46	44	30	29	28	13	13	13	5
2	73	67	62	57	63	58	54	50	41	39	36	26	25	23	12	11	11	4
3	67	59	52	47	57	51	46	42	36	33	30	23	21	20	10	10	9	4
4	61	52	45	40	52	45	39	35	32	29	26	20	18	17	9	8	8	3
5	56	46	39	34	48	40	34	30	29	25	22	18	16	14	8	7	7	3
6	51	41	34	29	44	36	30	26	26	22	19	16	14	12	7	6	6	2
7	47	37	30	25	40	32	26	22	23	19	16	15	12	11	7	6	5	2
8	43	33	26	22	37	29	23	19	21	17	14	13	11	9	6	5	4	2
9	40	30	23	19	35	26	21	17	19	15	13	12	10	8	6	5	4	2
10	37	27	21	17	32	24	18	15	17	14	11	11	9	7	5	4	4	2

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1295	1295	1295
5°	1297	1268	1261
10°	1278	1231	1227
15°	1254	1200	1187
20°	1210	1151	1160
25°	1173	1108	1132
30°	1116	1056	1100
35°	1051	1009	1076
40°	977	947	1059
45°	888	910	1028
50°	790	860	1017
55°	693	821	1014
60°	595	776	1004
65°	512	748	1002
70°	432	714	994
75°	331	682	982
80°	203	638	960
85°	34	568	924



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	20.0	0.2	0.2
10°-20°	56.7	0.7	0.6
20°-30°	84.0	1.0	0.9
30°-40°	98.6	1.2	1.1
40°-50°	99.8	1.2	1.1
50°-60°	90.9	1.1	1.0
60°-70°	75.2	0.9	0.8
70°-80°	55.4	0.7	0.6
80°-90°	33.6	0.4	0.4
90°-100°	343.9	4.2	3.8
100°-110°	890.6	10.8	9.9
110°-120°	1157.9	14.1	12.9
120°-130°	1230.2	15.0	13.7
130°-140°	1214.8	14.8	13.5
140°-150°	1105.3	13.4	12.3
150°-160°	890.8	10.8	9.9
160°-170°	578.3	7.0	6.4
170°-180°	200.4	2.4	2.2
0°-30°	160.7	2.0	1.8
0°-40°	259.3	3.2	2.9
0°-60°	450.0	5.5	5.0
0°-90°	614.2	7.5	6.8
90°-120°	2392.5	29.1	26.6
90°-150°	5942.7	72.2	66.0
90°-180°	7612.0	92.5	84.6
0°-180°	8226.4	100.0	91.4

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	212	212	212	212	212	
5°	212	211	211	211	211	20
15°	200	199	202	202	202	56
25°	177	177	182	187	191	81
35°	145	147	157	168	174	90
45°	107	112	130	146	154	82
55°	69	78	103	123	135	61
65°	38	49	78	102	113	38
75°	16	28	54	76	87	17
85°	1	12	30	48	57	2
90°	0	10	35	39	55	3
95°	76	268	383	392	385	97
105°	417	652	972	1042	1066	442
115°	788	898	1207	1436	1509	779
125°	1137	1172	1367	1546	1622	1015
135°	1446	1481	1561	1668	1710	1114
145°	1708	1732	1770	1813	1821	1067
155°	1909	1911	1935	1950	1952	880
165°	2049	2052	2050	2040	2039	578
175°	2119	2109	2110	2097	2094	201
180°	2112	2112	2112	2112	2112	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	212.0	212.0	212.0	212.0	212.0
2.5°	212.2	212.6	210.5	210.9	210.8
5°	212.2	211.3	210.9	210.9	210.8
7.5°	209.7	209.2	208.7	209.2	210.1
10°	207.4	206.6	206.6	207.9	207.9
12.5°	203.6	203.6	204.9	205.8	204.9
15°	200.2	199.4	201.5	201.8	202.3
17.5°	195.5	195.1	197.6	198.6	201.5
20°	188.7	189.9	192.0	194.6	197.3
22.5°	184.3	183.5	186.9	191.2	195.5
25°	177.1	177.1	182.2	187.0	190.8
27.5°	169.1	169.4	176.3	183.2	187.7
30°	161.7	163.0	169.8	177.9	182.2
32.5°	153.6	155.3	163.3	172.0	179.3
35°	144.7	147.3	157.4	167.8	173.7
37.5°	135.7	137.5	149.8	162.2	168.6
40°	126.4	130.2	142.0	155.8	165.2
42.5°	115.6	121.6	136.1	150.6	160.9
45°	106.7	112.3	129.8	145.5	153.7
47.5°	96.3	103.6	122.1	139.9	148.4
50°	86.9	93.7	115.6	133.6	144.2
52.5°	78.0	86.5	108.3	129.8	139.9
55°	68.6	78.0	102.7	123.3	134.8
57.5°	59.3	71.1	95.0	119.0	129.8
60°	51.9	63.0	89.2	113.5	123.7
62.5°	44.2	55.8	83.6	106.7	118.1
65°	38.3	48.6	77.6	101.5	112.6
67.5°	31.9	41.7	71.9	96.4	106.2
70°	26.7	36.5	65.6	89.9	100.2
72.5°	21.1	30.9	60.9	83.1	93.7
75°	16.0	27.6	54.0	76.2	86.9
77.5°	11.7	24.2	48.6	69.8	79.6
80°	7.0	20.8	42.1	61.7	72.4
82.5°	4.0	16.5	35.7	54.9	63.8
85°	0.7	12.2	29.7	48.1	57.1
87.5°	0.5	7.0	24.2	40.4	48.6
90°	0.5	9.5	34.6	39.1	54.9
92.5°	22.9	124.0	137.0	108.8	125.0
95°	75.9	267.8	382.7	392.5	384.8
97.5°	150.2	419.9	540.7	649.7	654.8
100°	237.3	554.0	674.1	798.4	793.7
102.5°	326.2	584.4	831.0	860.8	922.8
105°	417.3	651.8	972.3	1041.9	1065.9
107.5°	510.4	703.6	1070.6	1192.5	1210.3
110°	606.5	764.2	1123.5	1313.8	1344.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	696.3	830.1	1169.3	1387.6	1448.9
115°	787.8	897.6	1207.4	1436.4	1509.0
117.5°	877.0	967.7	1241.9	1476.9	1550.9
120°	967.6	1039.8	1280.9	1503.9	1581.3
122.5°	1054.4	1136.4	1324.1	1534.6	1603.1
125°	1136.8	1171.9	1366.8	1545.7	1621.8
127.5°	1217.2	1268.1	1414.1	1577.0	1641.1
130°	1294.1	1340.6	1461.1	1606.1	1661.5
132.5°	1371.4	1413.3	1512.0	1635.1	1686.4
135°	1445.8	1481.2	1561.1	1668.4	1709.8
137.5°	1514.6	1543.6	1611.6	1699.6	1737.2
140°	1582.1	1604.3	1664.1	1735.5	1765.4
142.5°	1645.3	1662.8	1718.0	1767.2	1793.2
145°	1708.1	1732.5	1770.0	1812.8	1821.4
147.5°	1763.3	1757.7	1817.6	1832.1	1851.3
150°	1815.4	1821.0	1860.3	1878.2	1887.3
152.5°	1864.0	1866.6	1899.5	1915.8	1920.0
155°	1908.6	1911.2	1935.0	1949.6	1952.1
157.5°	1950.8	1953.4	1967.5	1977.3	1979.9
160°	1987.6	1991.6	1998.3	1999.1	2003.0
162.5°	2020.5	2025.1	2025.3	2022.1	2020.0
165°	2049.2	2052.2	2049.6	2039.7	2038.9
167.5°	2072.6	2076.1	2075.2	2063.6	2054.3
170°	2092.7	2083.2	2095.7	2071.3	2070.5
172.5°	2108.1	2098.8	2108.1	2093.5	2087.2
175°	2118.8	2108.9	2110.2	2097.0	2094.4
177.5°	2125.2	2116.3	2115.3	2098.2	2091.9
180°	2111.8	2111.8	2111.8	2111.8	2111.8

(END OF REPORT)