

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: 17245

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 17245
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: AP-SP-2T5
Description: WHITE INTERIOR WITH SPECULAR REFLECTORS AND WHITE LENS OVER PERFORATIONS
Light Source: TWO SYLVANIA 54 WATT T5 LAMPS
FP54/841/HO. LUMEN RATING = 4500 LMS.
Ballast/Driver: -

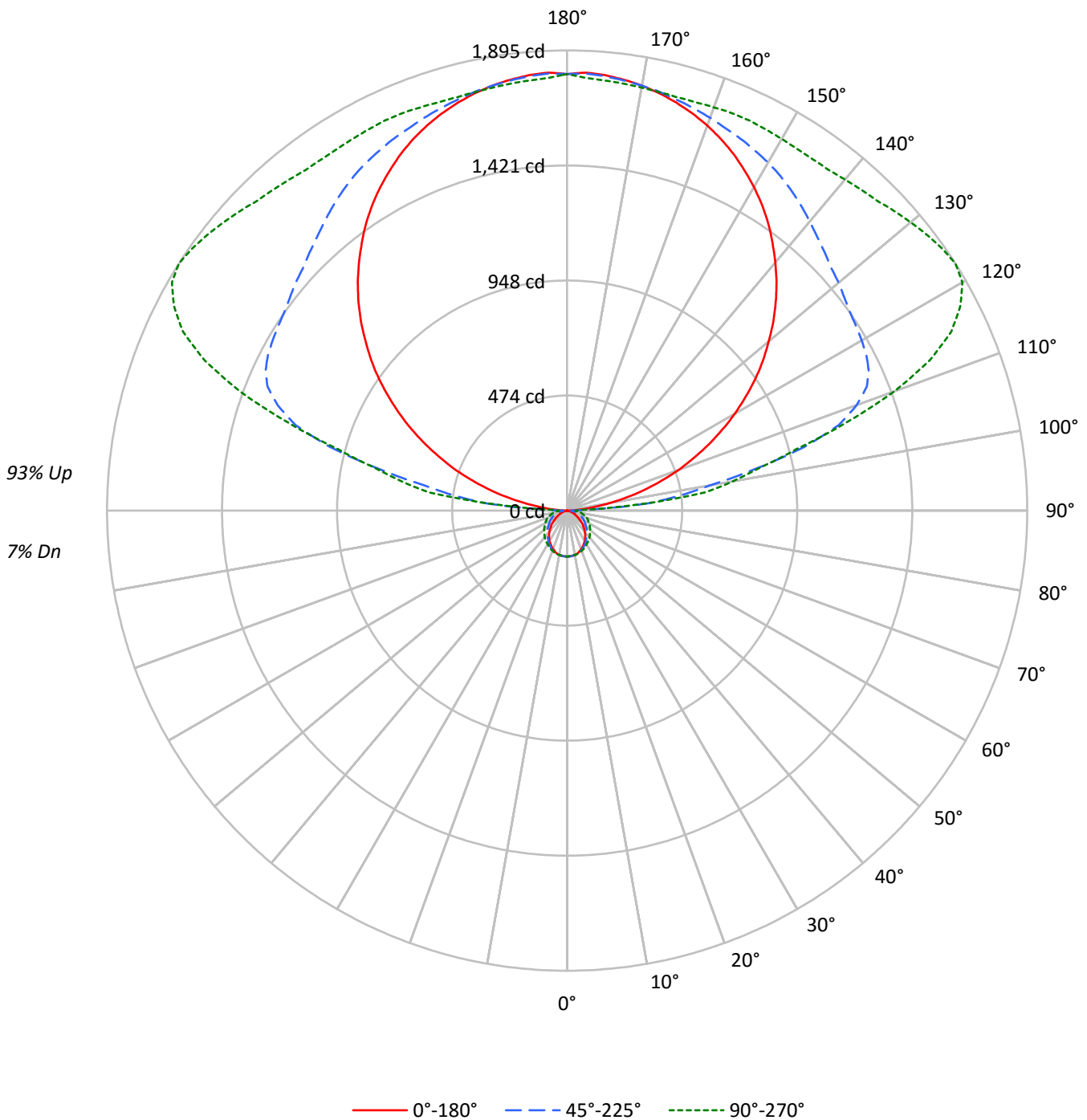
Summary

Lumens per Lamp: 4500 (2 lamps)
Luminaire Lumens: 7847.9 lumens
Efficiency: 87.2%
Efficacy: 65.4 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.26 / 1.31
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	84	84	84	84	73	73	73	73	52	52	52	32	32	32	14	14	14	6
1	77	73	70	67	66	63	61	58	45	43	42	28	27	26	12	12	12	5
2	70	64	59	55	60	55	51	48	39	37	35	25	23	22	11	10	10	4
3	64	56	50	45	55	48	44	40	35	31	29	22	20	18	10	9	8	3
4	58	49	43	38	50	43	37	33	31	27	24	19	17	16	9	8	7	3
5	53	44	37	32	46	38	32	28	27	24	21	17	15	13	8	7	6	2
6	49	39	32	28	42	34	28	24	24	21	18	15	13	12	7	6	5	2
7	45	35	28	24	39	30	25	21	22	18	16	14	12	10	6	5	5	2
8	41	31	25	21	36	27	22	18	20	16	14	12	10	9	6	5	4	2
9	38	28	22	18	33	25	20	16	18	14	12	11	9	8	5	4	4	2
10	36	26	20	16	31	23	18	14	16	13	11	10	8	7	5	4	3	1

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1159	1159	1159
5°	1147	1139	1121
10°	1141	1106	1095
15°	1122	1070	1067
20°	1085	1039	1031
25°	1043	986	1005
30°	1004	945	964
35°	939	887	941
40°	874	845	919
45°	795	798	890
50°	705	755	876
55°	607	722	853
60°	527	693	862
65°	448	660	849
70°	356	636	845
75°	304	602	813
80°	165	553	790
85°	24	488	744



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	17.9	0.2	0.2
10°-20°	50.7	0.6	0.6
20°-30°	75.0	1.0	0.8
30°-40°	87.4	1.1	1.0
40°-50°	88.0	1.1	1.0
50°-60°	79.5	1.0	0.9
60°-70°	65.4	0.8	0.7
70°-80°	47.7	0.6	0.5
80°-90°	27.7	0.4	0.3
90°-100°	291.3	3.7	3.2
100°-110°	881.7	11.2	9.8
110°-120°	1249.7	15.9	13.9
120°-130°	1270.0	16.2	14.1
130°-140°	1165.6	14.9	13.0
140°-150°	1004.8	12.8	11.2
150°-160°	780.5	9.9	8.7
160°-170°	494.8	6.3	5.5
170°-180°	170.2	2.2	1.9
0°-30°	143.6	1.8	1.6
0°-40°	231.0	2.9	2.6
0°-60°	398.5	5.1	4.4
0°-90°	539.3	6.9	6.0
90°-120°	2422.7	30.9	26.9
90°-150°	5863.1	74.7	65.1
90°-180°	7309.0	93.1	81.2
0°-180°	7847.9	100.0	87.2

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	190	190	190	190	190	
5°	188	189	190	188	187	18
15°	179	178	180	182	182	50
25°	157	159	162	167	169	72
35°	129	132	138	149	152	81
45°	96	100	114	127	133	74
55°	60	70	90	107	113	55
65°	34	43	68	87	96	33
75°	15	25	48	66	72	15
85°	0	11	26	40	46	1
90°	0	9	18	32	34	3
95°	61	225	326	310	304	74
105°	328	696	1010	992	977	348
115°	641	872	1370	1659	1746	634
125°	946	1068	1422	1749	1883	844
135°	1215	1296	1501	1715	1805	937
145°	1444	1486	1609	1720	1765	902
155°	1621	1626	1690	1750	1773	747
165°	1739	1733	1751	1757	1762	491
175°	1800	1792	1795	1782	1778	171
180°	1798	1798	1798	1798	1798	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	189.6	189.6	189.6	189.6	189.6
2.5°	189.5	189.9	188.7	189.0	188.2
5°	187.7	188.7	189.5	187.8	187.4
7.5°	187.4	187.4	186.1	187.4	187.0
10°	185.2	184.3	185.6	185.6	185.6
12.5°	182.7	182.2	184.0	183.5	184.5
15°	179.2	178.0	179.7	181.9	181.8
17.5°	173.6	173.6	175.0	178.7	179.7
20°	169.1	168.9	173.3	174.5	175.4
22.5°	163.5	163.8	170.3	170.7	173.3
25°	157.4	158.7	162.2	166.8	169.4
27.5°	151.0	153.1	157.9	161.7	165.1
30°	145.4	145.0	151.9	157.5	159.6
32.5°	137.3	138.6	145.0	151.9	156.6
35°	129.3	132.2	138.3	148.9	151.9
37.5°	121.6	123.3	132.7	142.5	148.1
40°	113.1	115.6	126.7	137.3	143.4
42.5°	104.9	108.3	119.5	132.2	138.2
45°	95.5	99.8	113.9	127.1	133.1
47.5°	87.8	92.1	108.3	122.4	128.8
50°	77.5	85.2	101.5	117.7	124.2
52.5°	69.8	76.7	95.9	112.1	118.6
55°	60.1	69.9	90.3	106.7	113.4
57.5°	52.8	63.5	83.6	103.6	111.3
60°	46.0	56.6	79.6	96.4	106.2
62.5°	38.2	51.1	73.6	92.1	98.8
65°	33.5	43.4	68.5	86.9	95.5
67.5°	27.9	37.8	63.4	82.3	89.9
70°	22.0	32.7	58.4	77.1	85.2
72.5°	18.6	28.5	52.4	70.6	78.4
75°	14.7	25.0	47.7	65.6	71.9
77.5°	10.5	21.1	41.2	59.2	65.5
80°	5.7	17.8	36.5	53.7	59.6
82.5°	1.9	14.7	30.5	46.8	52.9
85°	0.5	10.9	25.5	40.4	46.0
87.5°	0.5	5.7	19.0	34.0	41.2
90°	0.5	8.7	17.5	31.8	34.1
92.5°	19.4	94.2	87.4	55.7	60.9
95°	60.8	224.6	326.2	310.4	303.6
97.5°	113.0	394.2	466.9	568.0	574.1
100°	180.1	574.9	596.4	699.7	690.7
102.5°	252.2	617.7	796.3	767.3	808.7
105°	328.3	696.3	1009.6	991.9	977.0
107.5°	406.9	739.4	1173.1	1217.7	1205.2
110°	486.5	783.8	1268.4	1419.7	1434.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	562.2	828.4	1336.0	1564.1	1615.5
115°	641.2	872.4	1370.1	1659.4	1745.8
117.5°	719.3	919.4	1388.6	1725.6	1826.1
120°	797.1	970.7	1400.6	1757.7	1879.4
122.5°	871.4	1041.5	1411.2	1752.1	1895.3
125°	946.2	1068.1	1422.3	1748.7	1883.3
127.5°	1016.8	1139.0	1439.3	1743.7	1866.7
130°	1083.9	1192.0	1459.5	1732.5	1846.6
132.5°	1151.3	1245.8	1476.5	1720.9	1826.5
135°	1215.0	1296.3	1500.9	1715.0	1804.7
137.5°	1276.6	1343.3	1525.8	1714.6	1792.3
140°	1333.4	1387.6	1553.9	1709.8	1779.6
142.5°	1389.4	1431.3	1582.9	1712.5	1768.4
145°	1444.0	1485.5	1609.0	1720.4	1765.0
147.5°	1492.9	1505.1	1634.2	1725.2	1764.5
150°	1538.5	1554.7	1655.2	1736.3	1767.5
152.5°	1580.5	1591.1	1672.3	1742.7	1769.7
155°	1620.6	1625.7	1689.8	1749.6	1772.7
157.5°	1656.1	1657.7	1704.2	1751.7	1771.9
160°	1687.2	1686.4	1721.0	1752.2	1767.1
162.5°	1715.0	1711.6	1736.8	1752.6	1762.9
165°	1739.0	1733.3	1750.9	1756.8	1761.6
167.5°	1759.9	1757.7	1765.8	1765.8	1764.5
170°	1776.9	1765.4	1776.9	1768.9	1768.7
172.5°	1789.7	1782.5	1786.8	1775.3	1773.9
175°	1799.7	1792.3	1795.3	1782.0	1778.2
177.5°	1805.1	1798.3	1801.3	1787.6	1782.9
180°	1797.5	1797.5	1797.5	1797.5	1797.5

(END OF REPORT)