

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: 15722

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 15722  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: IP-WP-2T5  
Description: CORELITE 2 LAMP T5 DIRECT/INDIRECT LUMINAIRE - IRIIDIUM PERF

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: ONE SYLVANIA QT2X54/120PHO BALLAST OPERATING AT 120 VAC AND 123 WATTS

**Summary**

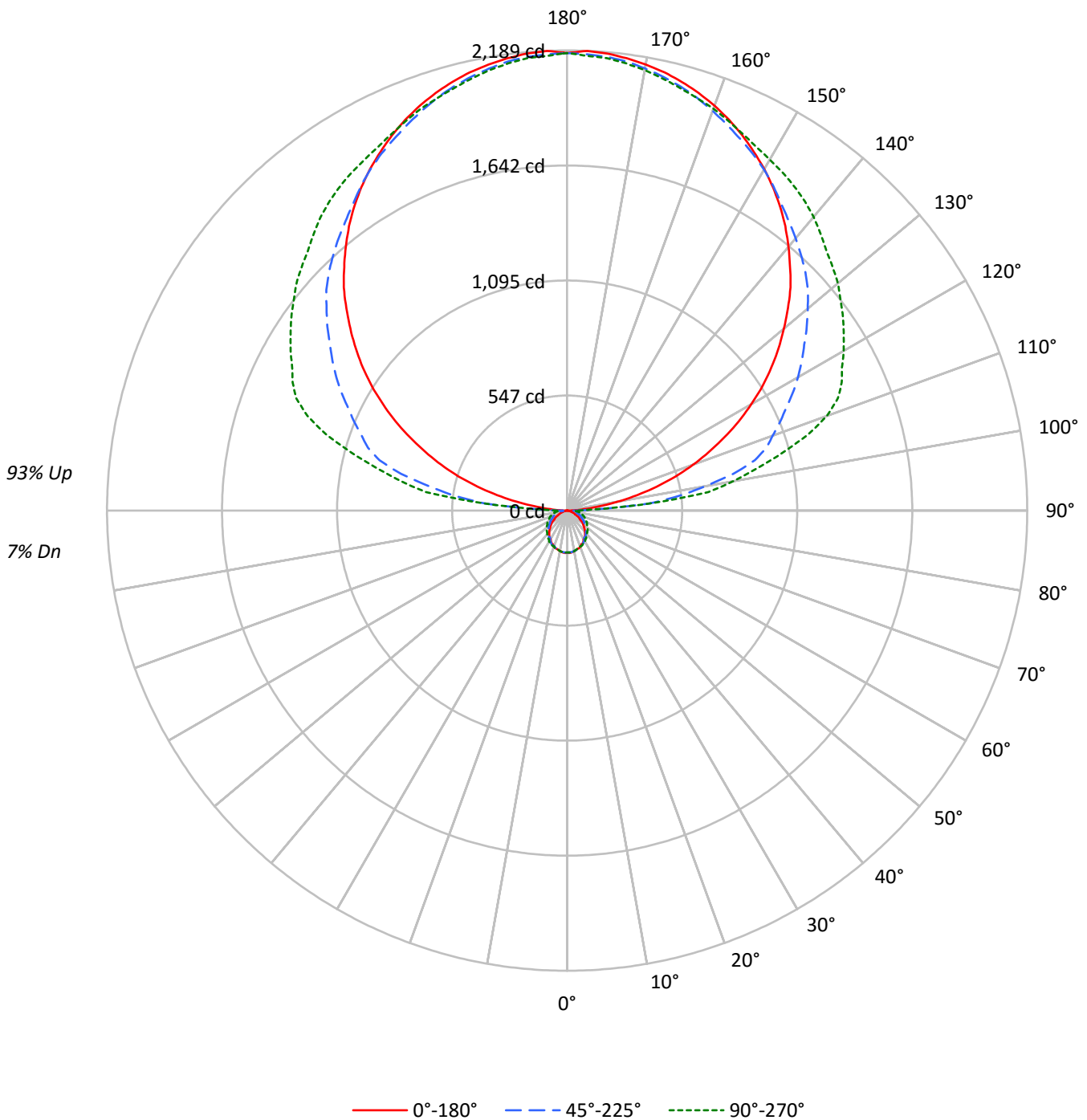
Lumens per Lamp: 4500 (2 lamps)  
Luminaire Lumens: 8225.0 lumens  
Efficiency: 91.4%  
Efficacy: 66.9 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.25 / 1.34  
Luminous Opening: Rectangular w/ Sides (W: 4' x L: 0.75' x H: 0.25')  
CIE Type: Indirect

Input Watts (W): 123  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	54	54	54	34	34	34	15	15	15	7
1	80	77	73	70	69	66	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	24	23	12	11	10	4
3	67	59	52	47	57	51	46	42	36	33	30	23	21	19	10	9	9	4
4	61	52	45	40	52	45	39	35	32	28	26	20	18	16	9	8	8	3
5	56	46	39	34	48	40	34	30	28	25	22	18	16	14	8	7	6	3
6	51	41	34	29	44	35	30	26	25	22	19	16	14	12	7	6	6	2
7	47	37	30	25	40	32	26	22	23	19	16	14	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	3	1

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

	0°	45°	90°
0°	714	714	714
5°	703	699	716
10°	671	673	707
15°	644	657	690
20°	627	619	677
25°	591	617	678
30°	545	581	681
35°	526	560	668
40°	484	528	659
45°	437	499	654
50°	395	476	654
55°	320	442	652
60°	287	423	687
65°	214	401	711
70°	176	374	772
75°	116	352	833
80°	90	326	946
85°	10	269	1181



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	18.8	0.2	0.2
10°-20°	53.5	0.7	0.6
20°-30°	80.2	1.0	0.9
30°-40°	94.7	1.2	1.1
40°-50°	96.3	1.2	1.1
50°-60°	87.7	1.1	1.0
60°-70°	71.9	0.9	0.8
70°-80°	52.3	0.6	0.6
80°-90°	29.8	0.4	0.3
90°-100°	344.0	4.2	3.8
100°-110°	864.1	10.5	9.6
110°-120°	1129.0	13.7	12.5
120°-130°	1235.7	15.0	13.7
130°-140°	1239.7	15.1	13.8
140°-150°	1126.5	13.7	12.5
150°-160°	904.6	11.0	10.1
160°-170°	590.3	7.2	6.6
170°-180°	205.8	2.5	2.3
0°-30°	152.5	1.9	1.7
0°-40°	247.2	3.0	2.7
0°-60°	431.2	5.2	4.8
0°-90°	585.3	7.1	6.5
90°-120°	2337.0	28.4	26.0
90°-150°	5939.0	72.2	66.0
90°-180°	7640.0	92.9	84.9
0°-180°	8225.0	100.0	91.4

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	199	199	199	199	199	
5°	201	198	199	196	200	19
15°	189	187	190	190	189	54
25°	173	173	176	177	176	79
35°	148	148	153	156	159	92
45°	115	116	126	130	137	89
55°	76	85	99	111	114	71
65°	43	57	76	89	95	44
75°	19	27	52	69	74	21
85°	1	11	27	43	49	4
90°	2	10	23	36	38	4
95°	79	272	394	402	404	101
105°	441	612	924	1022	1059	466
115°	825	927	1148	1355	1441	817
125°	1186	1191	1377	1523	1602	1059
135°	1502	1494	1602	1701	1745	1157
145°	1766	1759	1777	1852	1883	1104
155°	1970	1953	1950	1963	1976	908
165°	2111	2104	2088	2075	2080	596
175°	2183	2172	2166	2153	2160	207
180°	2176	2176	2176	2176	2176	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	199.1	199.1	199.1	199.1	199.1
2.5°	202.2	198.8	199.9	196.2	198.8
5°	200.9	197.5	198.8	196.2	199.9
7.5°	198.5	194.8	197.5	196.2	197.5
10°	195.1	192.5	193.8	196.2	196.2
12.5°	192.5	193.5	193.8	193.8	191.1
15°	188.8	187.4	190.1	189.8	188.8
17.5°	187.4	184.0	186.4	187.4	188.8
20°	184.0	182.4	178.7	185.1	181.4
22.5°	175.0	177.7	180.0	179.0	181.4
25°	172.6	173.0	176.3	176.7	176.3
27.5°	166.6	165.2	168.9	169.3	175.3
30°	156.8	161.5	162.9	167.9	170.3
32.5°	154.1	152.8	151.8	159.2	161.5
35°	148.1	148.1	152.8	155.5	159.2
37.5°	139.3	140.7	145.4	150.4	150.4
40°	132.3	134.6	139.3	143.0	148.1
42.5°	124.5	124.5	133.3	137.0	140.7
45°	114.8	116.1	125.9	129.6	137.0
47.5°	106.1	108.4	118.5	124.9	132.3
50°	99.0	98.7	113.8	118.5	125.9
52.5°	90.3	91.6	105.0	116.1	122.2
55°	75.5	85.2	99.0	111.1	113.5
57.5°	70.4	76.8	93.6	106.1	112.1
60°	63.0	69.1	87.6	98.7	106.1
62.5°	51.9	61.7	79.2	96.3	101.4
65°	43.2	57.0	75.5	88.9	95.0
67.5°	37.1	48.2	70.4	83.9	90.3
70°	32.1	42.2	63.0	77.8	86.2
72.5°	24.7	34.8	60.3	75.5	80.2
75°	18.7	27.4	51.9	69.1	74.1
77.5°	15.0	26.0	46.9	63.0	66.7
80°	12.6	20.0	40.8	55.6	62.0
82.5°	7.6	13.9	33.4	50.6	55.6
85°	1.2	11.3	27.4	43.2	49.2
87.5°	0.8	7.6	17.6	34.5	39.5
90°	1.5	9.9	23.0	36.1	37.5
92.5°	28.4	129.6	131.9	125.9	114.8
95°	78.8	272.5	394.2	401.6	404.2
97.5°	155.5	404.2	539.4	642.9	677.6
100°	245.2	501.4	664.1	793.2	800.6
102.5°	341.4	531.0	809.3	849.7	922.6
105°	441.2	612.3	924.0	1022.1	1059.1
107.5°	542.1	690.0	993.9	1152.9	1199.6
110°	638.2	759.9	1039.6	1250.4	1313.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	730.3	846.3	1094.1	1315.3	1394.3
115°	825.1	927.3	1147.9	1354.6	1441.0
117.5°	921.3	1000.3	1209.4	1396.6	1474.3
120°	1011.4	1074.2	1267.5	1445.7	1518.7
122.5°	1102.1	1158.9	1324.0	1502.9	1560.3
125°	1186.2	1190.9	1377.1	1523.4	1602.0
127.5°	1267.5	1282.3	1437.3	1581.2	1639.3
130°	1346.2	1350.9	1494.1	1620.8	1681.4
132.5°	1424.9	1422.5	1553.3	1660.2	1713.3
135°	1502.5	1494.1	1602.4	1700.9	1745.2
137.5°	1570.1	1559.0	1647.7	1743.9	1784.6
140°	1638.0	1621.9	1691.1	1784.6	1823.9
142.5°	1704.6	1682.4	1733.1	1816.5	1856.2
145°	1766.1	1758.7	1777.2	1852.1	1883.1
147.5°	1822.6	1784.6	1827.6	1864.6	1907.6
150°	1875.7	1854.8	1873.3	1898.9	1927.4
152.5°	1923.7	1906.6	1913.7	1931.1	1949.6
155°	1970.5	1953.3	1949.6	1963.1	1976.5
157.5°	2012.5	1996.4	1986.6	1994.0	2006.1
160°	2049.1	2036.7	2023.2	2022.2	2034.3
162.5°	2082.4	2071.3	2057.9	2048.1	2056.9
165°	2110.7	2103.6	2087.5	2075.4	2080.1
167.5°	2135.5	2133.2	2113.3	2103.6	2104.9
170°	2154.0	2141.6	2135.5	2114.4	2127.1
172.5°	2170.2	2164.1	2155.0	2141.9	2145.6
175°	2182.6	2172.5	2166.5	2152.7	2160.1
177.5°	2188.6	2181.2	2172.5	2160.1	2165.1
180°	2176.2	2176.2	2176.2	2176.2	2176.2

(END OF REPORT)