

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: 16866

Luminaire Tested: **AB-WO-2T5**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 16866
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: AB-WO-2T5
Description: CORELITE - SUSPENDED DIRECT/INDIRECT LUMINAIRE

WITH WHITE LENS OVER TWO ROWS OF RECTANGULAR APERTURES

Light Source: TWO OSRAM 54 WATT T5 LAMPS

FP54/841/HO. LUMEN RATING = 4500 LMS.

Ballast/Driver: ONE SYLVANIA QT2X54/120PHO BALLAST OPERATING AT 120 VAC AND 122 WATTS

Summary

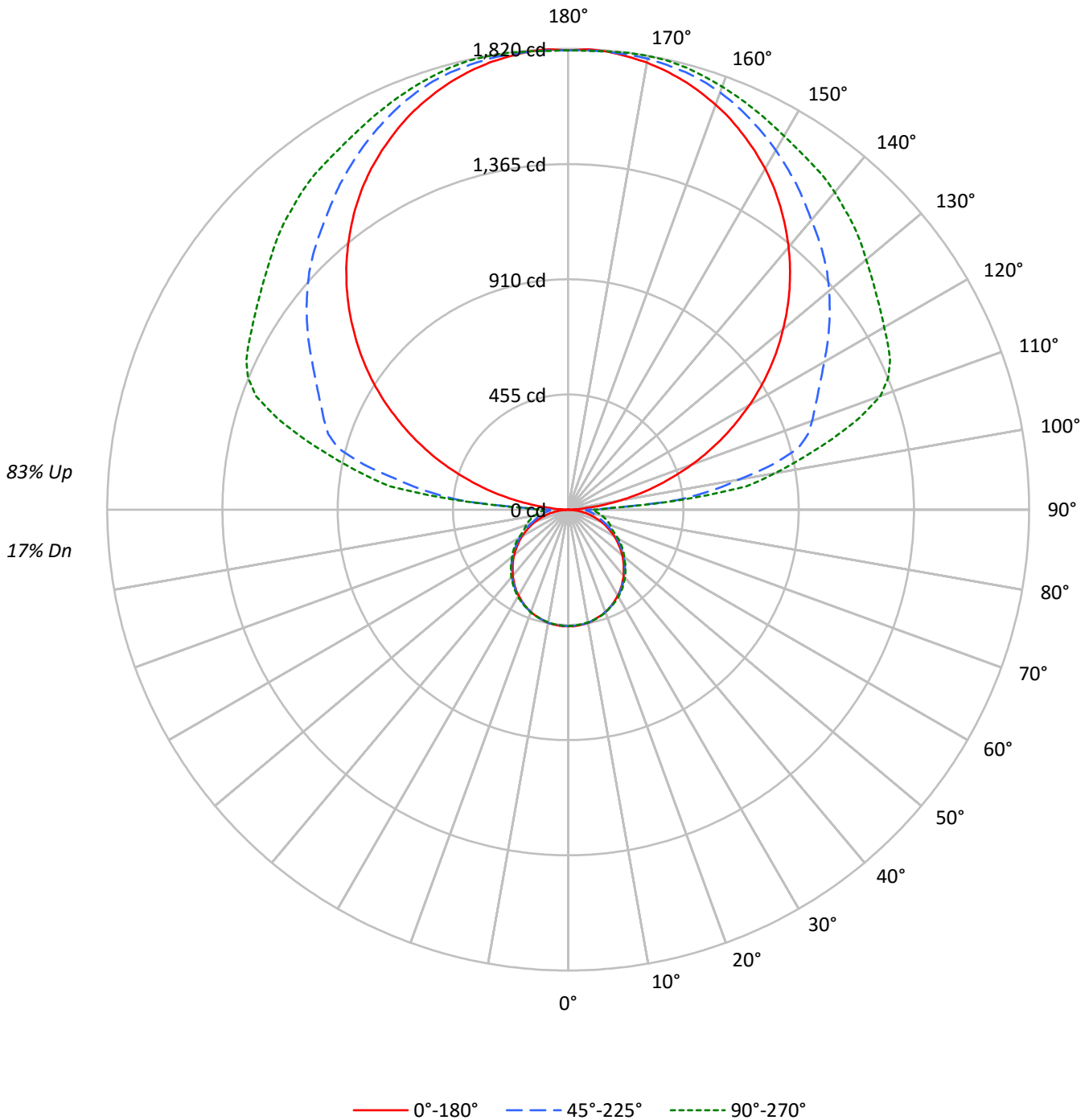
Lumens per Lamp: 4500 (2 lamps)
Luminaire Lumens: 8406.1 lumens
Efficiency: 93.4%
Efficacy: 68.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.25')
CIE Type: Semi-Indirect

Input Watts (W): 122
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	93	93	93	93	82	82	82	82	61	61	61	42	42	42	24	24	24	16
1	84	80	77	73	74	71	68	65	53	51	49	36	35	34	21	20	20	13
2	76	70	64	60	67	61	57	53	46	43	40	32	30	28	18	17	16	11
3	70	61	55	49	61	54	48	44	40	37	34	28	25	24	16	15	14	9
4	63	54	47	41	56	48	42	37	36	32	28	25	22	20	14	13	12	7
5	58	48	40	35	51	42	36	31	32	27	24	22	19	17	13	11	10	6
6	53	43	35	30	47	38	31	27	28	24	21	20	17	15	11	10	9	6
7	49	38	31	26	43	34	28	23	26	21	18	18	15	13	10	9	8	5
8	45	34	28	23	40	31	25	20	23	19	16	16	13	11	10	8	7	4
9	42	31	25	20	37	28	22	18	21	17	14	15	12	10	9	7	6	4
10	39	28	22	18	34	25	20	16	19	15	12	13	11	9	8	7	6	4

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1650	1650	1650
5°	1643	1607	1600
10°	1636	1575	1555
15°	1614	1532	1510
20°	1605	1489	1472
25°	1586	1449	1423
30°	1565	1406	1377
35°	1540	1355	1331
40°	1516	1308	1277
45°	1477	1256	1217
50°	1441	1195	1154
55°	1401	1129	1101
60°	1367	1062	1034
65°	1296	989	958
70°	1236	910	964
75°	1122	867	966
80°	958	853	967
85°	574	832	965



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	43.5	0.5	0.5
10°-20°	124.9	1.5	1.4
20°-30°	190.3	2.3	2.1
30°-40°	231.6	2.8	2.6
40°-50°	243.3	2.9	2.7
50°-60°	225.7	2.7	2.5
60°-70°	184.2	2.2	2.0
70°-80°	135.2	1.6	1.5
80°-90°	86.0	1.0	1.0
90°-100°	370.7	4.4	4.1
100°-110°	858.2	10.2	9.5
110°-120°	1057.9	12.6	11.8
120°-130°	1114.0	13.3	12.4
130°-140°	1097.5	13.1	12.2
140°-150°	984.1	11.7	10.9
150°-160°	782.5	9.3	8.7
160°-170°	503.7	6.0	5.6
170°-180°	172.8	2.1	1.9
0°-30°	358.7	4.3	4.0
0°-40°	590.3	7.0	6.6
0°-60°	1059.3	12.6	11.8
0°-90°	1464.6	17.4	16.3
90°-120°	2286.9	27.2	25.4
90°-150°	5482.5	65.2	60.9
90°-180°	6942.0	82.6	77.1
0°-180°	8406.1	100.0	93.4

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	460	460	460	460	460	
5°	459	457	457	456	457	44
15°	442	442	444	442	443	125
25°	412	411	414	414	415	190
35°	367	367	370	374	375	230
45°	309	311	317	319	320	239
55°	244	247	253	257	260	219
65°	173	178	186	192	194	172
75°	100	108	128	148	156	105
85°	24	52	85	108	113	28
90°	0	40	71	86	97	4
95°	66	281	429	443	454	85
105°	360	592	940	1043	1078	381
115°	675	829	1088	1318	1402	667
125°	972	1050	1258	1412	1484	868
135°	1236	1303	1424	1545	1592	953
145°	1461	1521	1570	1640	1672	914
155°	1634	1667	1702	1725	1743	754
165°	1755	1766	1789	1796	1807	495
175°	1815	1809	1814	1811	1817	172
180°	1814	1814	1814	1814	1814	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	459.9	459.9	459.9	459.9	459.9
2.5°	461.3	458.8	458.8	457.7	458.5
5°	458.8	456.8	457.2	456.0	457.2
7.5°	456.9	455.2	456.0	453.5	454.7
10°	453.9	451.4	453.5	450.5	451.8
12.5°	448.9	446.9	447.6	446.9	448.0
15°	441.8	441.8	443.5	441.8	442.7
17.5°	436.9	436.1	436.4	436.0	437.7
20°	429.8	428.1	429.8	429.8	432.3
22.5°	421.9	419.8	422.3	422.6	422.2
25°	412.3	410.6	413.9	414.0	415.3
27.5°	402.3	399.8	403.5	404.3	406.4
30°	391.4	389.7	394.3	395.1	396.4
32.5°	380.2	378.1	382.6	384.3	385.6
35°	366.9	367.3	370.1	373.5	374.8
37.5°	353.5	353.2	358.2	359.9	361.5
40°	340.7	341.1	344.9	347.4	349.0
42.5°	324.7	326.1	331.1	333.5	334.4
45°	309.3	311.1	316.9	319.3	319.7
47.5°	294.7	296.1	301.8	303.6	303.5
50°	277.3	279.0	285.6	286.9	288.9
52.5°	261.5	263.5	269.8	272.3	274.8
55°	244.0	247.3	252.6	256.8	259.8
57.5°	227.7	231.8	236.5	241.8	244.0
60°	211.1	213.5	219.8	225.1	227.3
62.5°	191.9	195.7	202.8	209.4	209.0
65°	173.1	178.5	186.4	191.6	193.6
67.5°	156.4	160.2	169.8	177.7	184.4
70°	138.1	143.1	153.5	167.7	176.0
72.5°	118.1	124.8	138.6	158.1	166.9
75°	99.8	107.7	127.8	147.8	156.4
77.5°	81.0	89.0	117.3	137.8	145.6
80°	62.8	75.2	106.8	126.5	135.3
82.5°	44.4	63.0	95.7	115.6	123.2
85°	23.9	52.4	84.9	107.7	112.7
87.5°	7.3	42.8	72.3	94.4	101.0
90°	0.5	39.5	70.8	86.2	97.1
92.5°	19.0	140.2	176.1	166.1	182.3
95°	66.0	281.4	428.9	442.7	453.5
97.5°	132.8	409.8	566.7	663.1	709.3
100°	205.7	521.8	683.9	816.7	829.3
102.5°	283.1	541.4	826.7	877.5	948.4
105°	360.2	591.9	940.4	1042.6	1077.5
107.5°	438.0	642.6	993.0	1170.0	1205.3
110°	518.5	701.4	1025.0	1256.2	1311.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	597.2	765.9	1054.6	1297.9	1368.3
115°	674.7	828.8	1087.9	1317.9	1402.0
117.5°	749.6	887.6	1125.5	1341.5	1422.1
120°	826.7	947.1	1166.7	1366.2	1440.8
122.5°	900.1	1020.8	1212.9	1400.0	1462.4
125°	971.7	1050.1	1257.8	1412.5	1484.5
127.5°	1040.9	1127.2	1301.6	1451.6	1509.9
130°	1107.5	1185.9	1344.6	1484.2	1536.1
132.5°	1172.9	1245.0	1386.6	1515.3	1565.4
135°	1236.2	1303.2	1424.1	1545.3	1592.0
137.5°	1296.6	1357.5	1459.1	1569.6	1613.2
140°	1353.7	1411.7	1493.7	1594.8	1637.0
142.5°	1408.3	1461.6	1531.1	1615.3	1657.0
145°	1461.2	1521.1	1569.9	1640.4	1672.0
147.5°	1510.3	1542.0	1604.5	1650.8	1686.9
150°	1555.3	1595.7	1639.5	1680.8	1704.6
152.5°	1596.5	1632.8	1671.6	1703.6	1723.5
155°	1634.5	1666.6	1701.5	1724.9	1742.8
157.5°	1671.1	1696.1	1729.8	1746.5	1760.7
160°	1702.4	1722.1	1753.6	1765.3	1777.8
162.5°	1730.3	1745.7	1774.0	1782.8	1792.8
165°	1754.9	1765.7	1789.1	1795.6	1806.9
167.5°	1775.6	1784.0	1799.1	1808.6	1816.0
170°	1792.8	1790.3	1808.6	1813.6	1819.4
172.5°	1805.2	1802.4	1812.7	1813.2	1819.8
175°	1815.2	1808.6	1814.4	1810.7	1816.9
177.5°	1819.8	1812.7	1815.7	1806.6	1813.5
180°	1814.0	1814.0	1814.0	1814.0	1814.0

(END OF REPORT)