

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: 16869

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 16869
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: AB-WP-2T5
Description: CORELITE - SUSPENDED DIRECT/INDIRECT LUMINAIRE
WHITE LENS WITH ROUND PERF PRINT 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

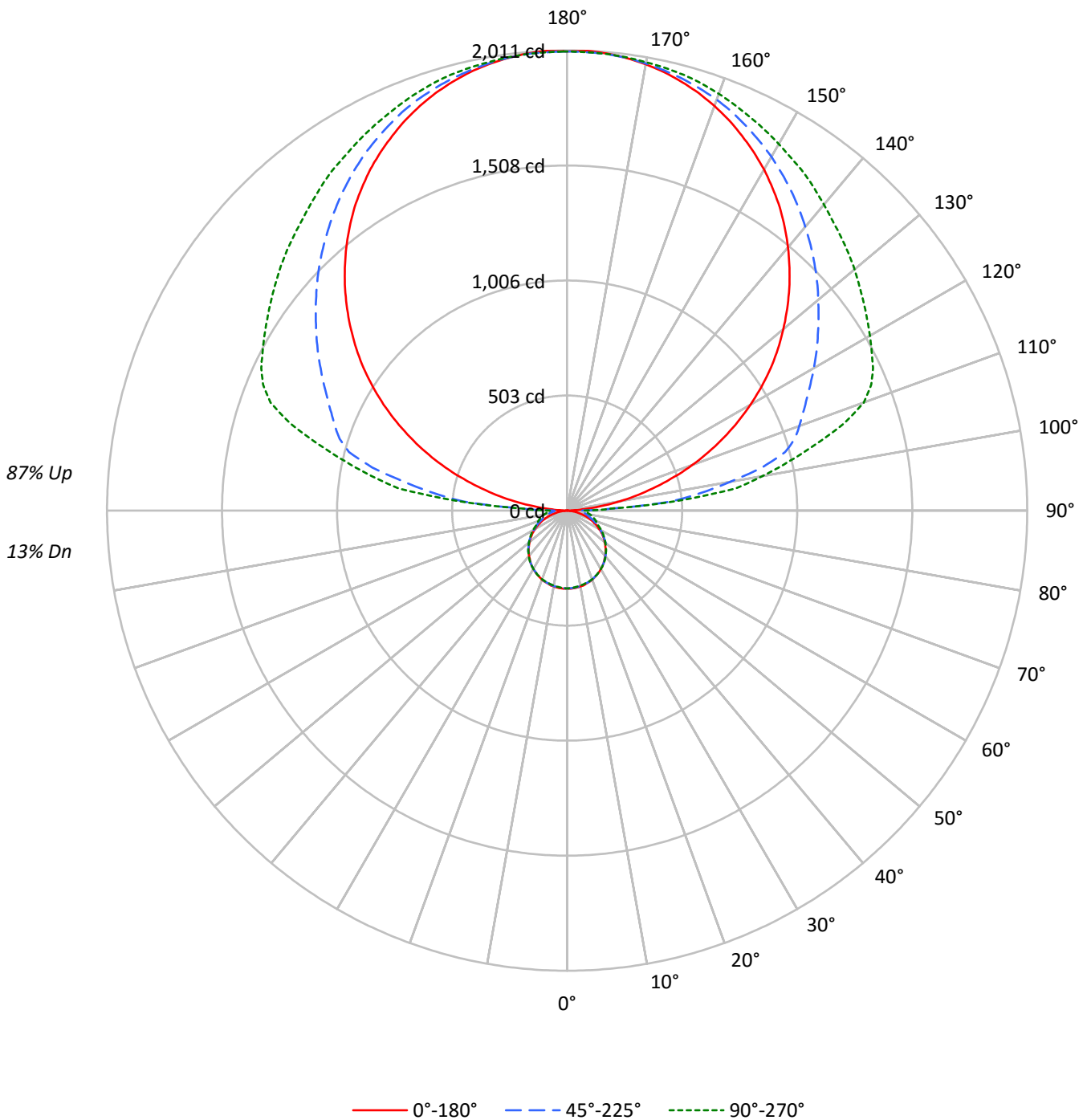
Summary

Lumens per Lamp: 4500 (2 lamps)
Luminaire Lumens: 8565.4 lumens
Efficiency: 95.2%
Efficacy: 70.2 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.41
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	94	94	94	94	82	82	82	82	60	60	60	40	40	40	21	21	21	12
1	85	81	77	74	74	71	68	65	52	50	48	34	33	32	18	18	17	10
2	77	70	65	60	67	62	57	53	45	42	39	30	28	27	16	15	14	8
3	70	62	55	50	61	54	49	44	40	36	33	26	24	22	14	13	12	7
4	64	54	47	42	56	48	42	37	35	31	28	23	21	19	12	11	10	6
5	59	48	41	35	51	42	36	31	31	27	24	21	18	16	11	10	9	5
6	54	43	36	30	47	38	32	27	28	24	20	19	16	14	10	9	8	4
7	49	38	31	26	43	34	28	23	25	21	18	17	14	12	9	8	7	4
8	46	35	28	23	40	31	25	20	23	18	16	15	13	11	8	7	6	3
9	42	31	25	20	37	28	22	18	21	17	14	14	11	9	7	6	5	3
10	39	29	22	18	34	25	20	16	19	15	12	13	10	8	7	6	5	3

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1221	1221	1221
5°	1219	1189	1181
10°	1213	1163	1146
15°	1204	1135	1114
20°	1201	1107	1088
25°	1189	1080	1057
30°	1179	1052	1025
35°	1168	1020	993
40°	1152	986	952
45°	1133	951	916
50°	1113	915	870
55°	1092	862	828
60°	1050	808	783
65°	992	765	730
70°	915	710	737
75°	791	670	735
80°	624	663	736
85°	331	633	739



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	32.2	0.4	0.4
10°-20°	92.7	1.1	1.0
20°-30°	141.9	1.7	1.6
30°-40°	174.0	2.0	1.9
40°-50°	184.4	2.2	2.0
50°-60°	172.3	2.0	1.9
60°-70°	141.4	1.7	1.6
70°-80°	103.5	1.2	1.2
80°-90°	65.1	0.8	0.7
90°-100°	389.7	4.5	4.3
100°-110°	903.4	10.5	10.0
110°-120°	1123.1	13.1	12.5
120°-130°	1195.0	14.0	13.3
130°-140°	1182.0	13.8	13.1
140°-150°	1069.1	12.5	11.9
150°-160°	853.8	10.0	9.5
160°-170°	551.4	6.4	6.1
170°-180°	190.3	2.2	2.1
0°-30°	266.8	3.1	3.0
0°-40°	440.8	5.1	4.9
0°-60°	797.5	9.3	8.9
0°-90°	1107.6	12.9	12.3
90°-120°	2416.2	28.2	26.8
90°-150°	5862.2	68.4	65.1
90°-180°	7458.0	87.1	82.9
0°-180°	8565.4	100.0	95.2

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	340	340	340	340	340	
5°	340	339	338	337	338	32
15°	330	328	328	327	327	93
25°	309	307	308	307	308	143
35°	278	278	278	280	280	174
45°	237	238	240	241	241	183
55°	190	189	193	193	195	169
65°	132	138	144	147	148	131
75°	70	83	99	115	119	75
85°	14	38	65	81	86	17
90°	0	31	56	72	76	4
95°	77	299	454	476	485	97
105°	403	616	987	1088	1129	427
115°	756	870	1155	1386	1475	748
125°	1086	1134	1338	1504	1582	969
135°	1373	1416	1528	1641	1692	1059
145°	1619	1657	1706	1774	1803	1012
155°	1808	1816	1853	1879	1896	834
165°	1939	1938	1953	1960	1971	547
175°	2005	1997	2002	1997	2003	191
180°	2006	2006	2006	2006	2006	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	340.2	340.2	340.2	340.2	340.2
2.5°	342.0	340.4	339.6	337.1	339.2
5°	340.4	339.2	338.3	336.7	337.5
7.5°	339.2	336.7	337.1	334.6	335.4
10°	336.7	334.6	335.0	332.9	332.9
12.5°	334.2	332.1	331.7	331.3	330.1
15°	329.5	328.3	328.4	326.7	326.7
17.5°	325.9	324.2	324.6	323.7	323.3
20°	321.7	319.2	319.6	317.9	319.6
22.5°	315.1	313.2	314.2	312.4	313.7
25°	309.1	306.6	308.4	307.0	308.4
27.5°	302.4	301.2	301.2	300.8	301.6
30°	294.9	293.3	294.9	293.7	294.9
32.5°	287.1	285.4	286.6	286.6	287.1
35°	278.3	277.5	278.4	280.0	279.6
37.5°	268.0	267.5	269.6	269.2	270.8
40°	258.8	258.3	260.0	260.5	260.0
42.5°	249.2	247.9	250.8	251.3	250.4
45°	237.2	237.5	240.0	241.3	240.8
47.5°	226.2	225.8	228.3	228.7	228.7
50°	214.2	213.7	218.7	215.8	217.9
52.5°	202.6	202.6	206.3	205.5	207.5
55°	190.1	189.3	192.9	193.4	195.4
57.5°	176.7	179.3	181.3	183.7	185.0
60°	162.1	164.6	167.1	172.9	172.1
62.5°	148.3	152.1	154.9	160.1	160.1
65°	132.5	137.5	144.1	146.6	147.5
67.5°	118.0	123.4	131.6	136.3	140.5
70°	102.2	110.0	119.7	128.9	134.6
72.5°	87.6	95.9	107.5	121.3	126.7
75°	70.4	83.0	98.8	114.6	118.9
77.5°	55.5	69.2	91.3	106.4	111.7
80°	40.9	58.4	83.0	98.4	103.0
82.5°	27.2	47.6	73.7	89.2	93.9
85°	13.8	38.4	64.6	80.9	86.4
87.5°	2.3	29.3	55.5	71.7	76.7
90°	0.5	31.2	56.2	71.7	76.1
92.5°	23.0	135.8	194.2	184.2	194.2
95°	77.2	298.8	453.7	475.8	484.9
97.5°	151.3	432.5	590.7	693.3	742.4
100°	233.3	537.4	720.7	857.8	866.5
102.5°	317.9	559.1	873.6	922.4	993.5
105°	402.9	615.8	986.9	1088.5	1128.7
107.5°	492.1	676.5	1042.8	1224.4	1269.8
110°	582.9	741.5	1080.2	1316.9	1379.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	669.4	806.6	1115.6	1361.4	1438.6
115°	756.1	869.5	1155.3	1386.5	1475.2
117.5°	841.5	944.4	1198.9	1418.1	1500.5
120°	925.7	1014.9	1244.3	1448.0	1528.1
122.5°	1007.0	1102.7	1291.5	1489.8	1554.7
125°	1085.7	1134.5	1337.7	1504.3	1582.3
127.5°	1161.5	1217.7	1384.4	1543.9	1610.6
130°	1233.6	1287.3	1432.8	1578.4	1639.7
132.5°	1304.0	1353.1	1481.4	1611.0	1666.8
135°	1372.6	1416.4	1528.5	1641.0	1692.2
137.5°	1438.4	1477.3	1574.7	1672.3	1717.2
140°	1501.9	1535.9	1618.9	1704.7	1745.5
142.5°	1561.8	1590.9	1663.4	1735.5	1774.7
145°	1619.3	1656.8	1706.3	1774.3	1802.9
147.5°	1670.9	1679.8	1746.7	1788.5	1824.6
150°	1721.4	1737.5	1785.5	1825.4	1850.0
152.5°	1766.0	1777.6	1820.4	1852.2	1873.8
155°	1807.6	1815.5	1853.0	1878.9	1895.8
157.5°	1847.2	1852.2	1885.5	1902.5	1917.6
160°	1881.7	1883.8	1911.0	1924.7	1938.4
162.5°	1912.6	1912.6	1933.4	1944.6	1956.3
165°	1939.3	1937.6	1953.0	1960.4	1971.2
167.5°	1962.1	1963.7	1969.6	1974.5	1981.4
170°	1980.4	1971.4	1983.7	1979.5	1990.0
172.5°	1994.7	1988.3	1995.5	1990.5	1997.2
175°	2005.0	1997.2	2002.5	1996.7	2003.0
177.5°	2011.3	2003.4	2005.5	1999.7	2005.5
180°	2006.3	2006.3	2006.3	2006.3	2006.3

(END OF REPORT)