

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: 17248

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 17248
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: AZ-WP-2T5
Description: DIRECT/INDIRECT SUSPENDED LUMINAIRE
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

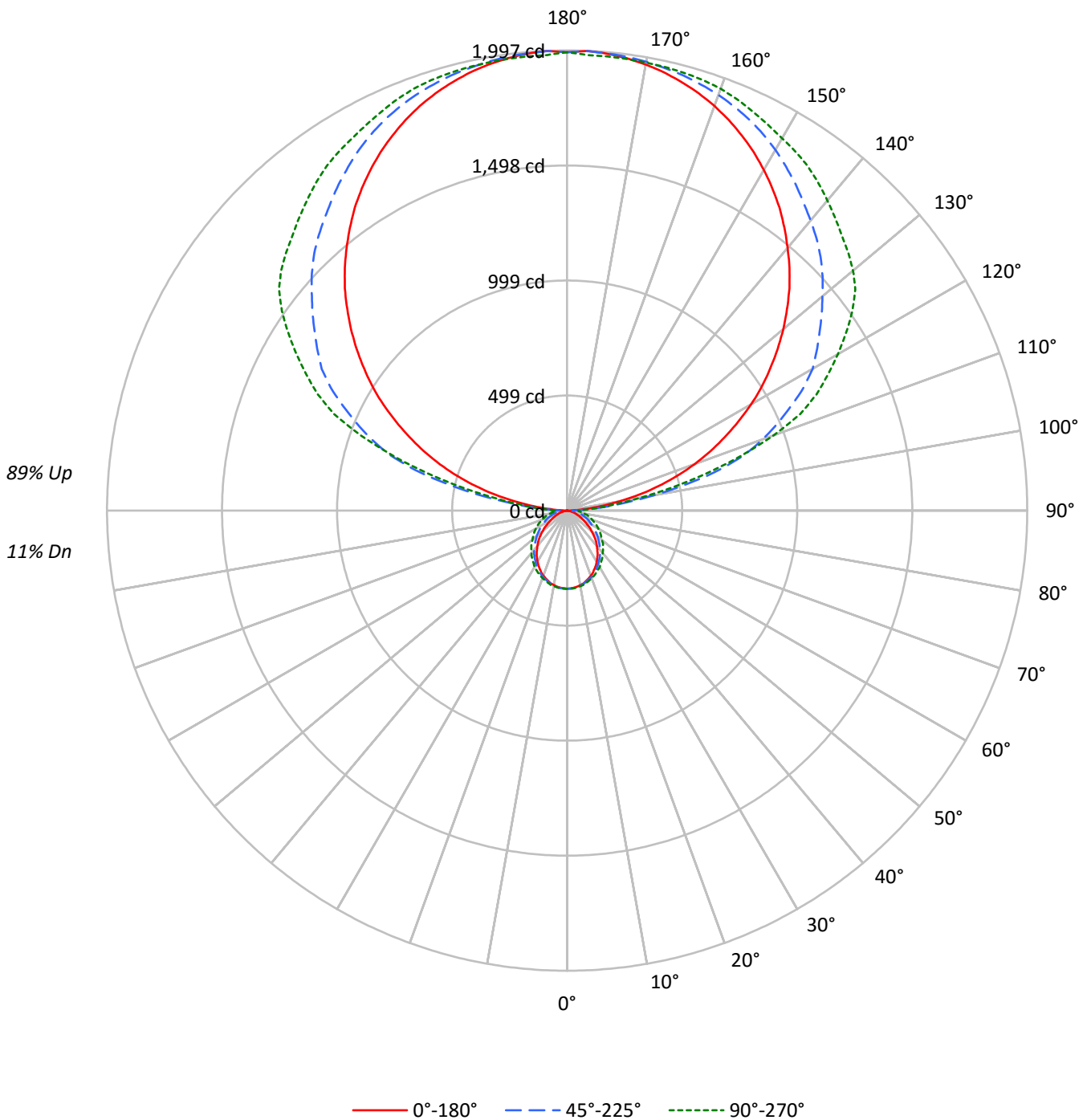
Lumens per Lamp: 4500 (2 lamps)
Luminaire Lumens: 7737.7 lumens
Efficiency: 86.0%
Efficacy: 64.5 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.23 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.7' x L: 3.67' x H: 0.16')
CIE Type: Semi-Indirect

Input Watts (W): 120
Input Voltage (V): NR
Input Current (A_{in}): 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	53	53	53	35	35	35	18	18	18	10
1	77	73	70	67	67	64	61	59	46	45	43	30	29	29	16	15	15	8
2	70	64	59	55	60	56	52	48	40	38	36	27	25	24	14	13	12	7
3	63	56	50	45	55	49	44	40	36	32	30	23	22	20	12	11	11	6
4	58	49	43	38	50	43	38	34	32	28	25	21	19	17	11	10	9	5
5	53	44	37	32	46	38	33	29	28	24	22	19	16	15	10	9	8	4
6	49	39	32	28	42	34	29	25	25	21	19	17	14	13	9	8	7	4
7	45	35	29	24	39	31	25	21	23	19	16	15	13	11	8	7	6	3
8	41	32	25	21	36	28	22	19	20	17	14	14	11	10	7	6	5	3
9	38	29	23	18	33	25	20	16	19	15	13	12	10	9	7	6	5	3
10	36	26	20	16	31	23	18	15	17	14	11	11	9	8	6	5	4	2

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1421	1421	1421
5°	1408	1398	1396
10°	1387	1363	1362
15°	1357	1319	1323
20°	1321	1279	1286
25°	1268	1227	1245
30°	1211	1171	1209
35°	1145	1113	1154
40°	1061	1042	1101
45°	968	975	1058
50°	856	910	1005
55°	747	845	975
60°	630	778	935
65°	539	727	908
70°	450	668	865
75°	326	610	840
80°	201	547	789
85°	16	461	756



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	32.0	0.4	0.4
10°-20°	90.2	1.2	1.0
20°-30°	132.8	1.7	1.5
30°-40°	153.5	2.0	1.7
40°-50°	150.6	1.9	1.7
50°-60°	129.8	1.7	1.4
60°-70°	98.8	1.3	1.1
70°-80°	65.9	0.9	0.7
80°-90°	34.6	0.4	0.4
90°-100°	166.5	2.2	1.9
100°-110°	633.0	8.2	7.0
110°-120°	1009.0	13.0	11.2
120°-130°	1176.7	15.2	13.1
130°-140°	1189.0	15.4	13.2
140°-150°	1078.0	13.9	12.0
150°-160°	857.9	11.1	9.5
160°-170°	550.4	7.1	6.1
170°-180°	189.0	2.4	2.1
0°-30°	255.0	3.3	2.8
0°-40°	408.5	5.3	4.5
0°-60°	688.9	8.9	7.7
0°-90°	888.2	11.5	9.9
90°-120°	1808.5	23.4	20.1
90°-150°	5252.2	67.9	58.4
90°-180°	6849.0	88.5	76.1
0°-180°	7737.7	100.0	86.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	339	339	339	339	339	
5°	336	336	338	338	338	32
15°	316	318	320	322	324	89
25°	280	282	289	295	298	129
35°	231	236	247	257	262	143
45°	170	178	196	212	219	131
55°	109	120	148	169	177	97
65°	59	70	104	127	136	59
75°	23	36	65	87	96	26
85°	0	12	31	51	57	3
90°	0	6	25	36	48	3
95°	71	155	132	130	133	93
105°	409	573	684	650	629	432
115°	755	875	1072	1171	1194	747
125°	1077	1143	1336	1462	1511	962
135°	1364	1428	1556	1651	1687	1051
145°	1606	1661	1728	1802	1822	1004
155°	1795	1814	1872	1899	1910	828
165°	1924	1927	1954	1960	1966	543
175°	1990	1984	1992	1980	1978	189
180°	1989	1989	1989	1989	1989	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	339.1	339.1	339.1	339.1	339.1
2.5°	338.0	339.5	339.5	339.5	338.4
5°	336.0	336.0	338.0	338.0	338.5
7.5°	333.0	334.1	336.0	335.6	336.1
10°	328.6	328.7	331.2	331.0	333.0
12.5°	324.2	324.2	325.2	328.2	329.7
15°	316.4	318.3	319.7	321.7	323.8
17.5°	308.4	311.4	312.9	316.9	318.3
20°	301.0	301.5	307.0	309.4	312.3
22.5°	291.8	292.7	297.7	302.0	305.5
25°	279.9	282.2	289.2	294.6	298.1
27.5°	269.1	270.5	278.9	284.2	289.8
30°	256.7	259.1	268.9	275.9	282.9
32.5°	243.5	247.4	257.2	266.5	270.5
35°	230.6	235.6	246.9	257.2	261.7
37.5°	214.9	219.3	235.1	244.1	252.4
40°	201.0	207.5	221.3	233.6	240.0
42.5°	186.8	192.2	209.0	223.8	230.2
45°	170.5	177.9	196.2	211.9	219.3
47.5°	154.9	163.3	182.9	201.0	210.5
50°	138.1	147.0	171.6	188.8	196.2
52.5°	124.8	136.1	159.8	178.9	186.8
55°	108.6	120.4	147.5	169.1	177.0
57.5°	92.7	108.6	135.7	157.8	167.6
60°	80.9	94.2	123.8	146.9	155.7
62.5°	68.6	82.0	113.0	137.6	146.9
65°	59.4	70.1	103.6	126.7	136.5
67.5°	48.5	60.7	93.2	116.0	124.8
70°	41.1	52.4	83.3	107.6	114.9
72.5°	32.6	43.0	74.0	96.2	106.0
75°	23.4	36.3	64.7	87.3	96.2
77.5°	15.4	29.8	56.4	77.5	88.3
80°	10.4	24.8	47.4	68.1	75.1
82.5°	4.1	16.9	39.2	58.8	66.8
85°	0.5	12.5	30.7	51.0	56.8
87.5°	0.5	6.5	24.3	41.6	50.4
90°	0.5	5.5	25.2	36.4	48.2
92.5°	22.8	57.4	62.3	68.6	73.6
95°	71.2	154.8	131.7	129.7	132.8
97.5°	145.5	281.3	241.4	216.8	209.5
100°	230.8	417.7	384.3	381.8	326.2
102.5°	319.7	464.6	533.4	451.2	469.5
105°	409.4	572.8	684.5	649.6	629.4
107.5°	499.4	656.0	810.2	809.1	792.9
110°	587.6	730.4	902.7	956.4	952.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	671.4	801.7	987.5	1078.5	1093.7
115°	755.0	875.1	1071.6	1170.6	1193.7
117.5°	837.6	951.5	1157.3	1250.4	1274.9
120°	921.5	1022.3	1229.6	1332.5	1356.2
122.5°	1001.6	1111.0	1283.3	1430.9	1435.4
125°	1076.6	1143.4	1335.9	1462.5	1511.2
127.5°	1151.3	1229.6	1391.7	1529.0	1576.2
130°	1224.2	1296.1	1446.3	1571.4	1620.0
132.5°	1294.2	1362.5	1503.4	1610.8	1655.0
135°	1364.1	1428.5	1556.1	1650.7	1686.6
137.5°	1428.0	1488.2	1602.3	1691.4	1722.1
140°	1488.6	1546.3	1643.2	1729.5	1756.9
142.5°	1548.3	1598.8	1685.1	1765.9	1791.3
145°	1605.8	1661.4	1728.4	1802.2	1822.5
147.5°	1658.0	1683.1	1768.3	1815.5	1846.0
150°	1707.1	1739.3	1807.6	1847.1	1865.8
152.5°	1753.5	1776.6	1841.7	1873.1	1887.4
155°	1795.3	1814.0	1871.5	1899.2	1909.6
157.5°	1833.8	1847.1	1897.2	1921.4	1931.2
160°	1868.2	1877.6	1919.9	1938.6	1948.0
162.5°	1898.8	1904.1	1937.7	1951.0	1958.9
165°	1924.4	1926.9	1953.9	1960.2	1966.2
167.5°	1947.5	1950.4	1966.6	1969.1	1971.1
170°	1965.6	1957.8	1977.5	1972.1	1974.0
172.5°	1980.0	1974.0	1986.3	1977.0	1976.5
175°	1990.4	1983.5	1991.8	1980.5	1978.4
177.5°	1996.7	1989.4	1995.7	1980.9	1978.9
180°	1989.1	1989.1	1989.1	1989.1	1989.1

(END OF REPORT)