

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: 17244

Luminaire Tested: **AP-SP-1T5**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 17244
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: AP-SP-1T5
Description: WITH WHITE LENS UNDER LAMP, SPECULAR REFLECTORS AND WHITE LENS OVER
PERF
Light Source: ONE SYLVANIA 54 WATT T5 LAMP

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

Ballast/Driver: -

Summary

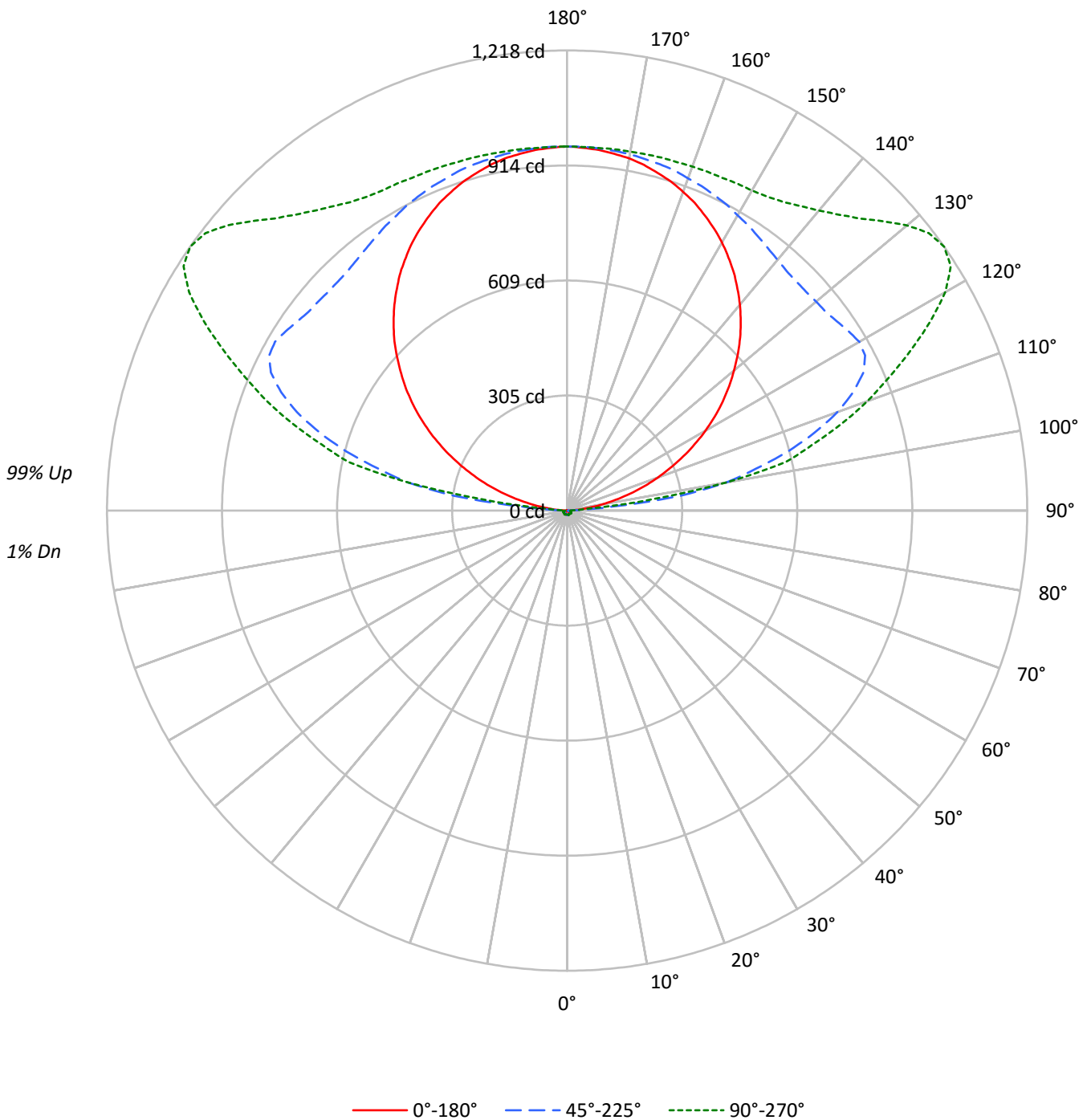
Lumens per Lamp: 4500 (1 lamp)
Luminaire Lumens: 4282.9 lumens
Efficiency: 95.2%
Efficacy: 71.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.53 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.48' x L: 3.67' x H: 0.14')
CIE Type: Indirect

Input Watts (W): 60
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



TEST NUMBER: 17244
CATALOG NUMBER: AP-SP-1T5

Luminous Intensity Polar Plot





TEST NUMBER: 17244
 CATALOG NUMBER: AP-SP-1T5

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	91	91	91	91	78	78	78	78	53	53	53	31	31	31	11	11	11	1
1	83	79	75	72	71	68	65	62	46	45	43	27	26	26	9	9	9	1
2	75	69	63	59	64	59	55	51	41	38	36	24	22	21	8	8	7	1
3	68	60	54	49	58	52	47	42	36	32	30	21	19	18	7	7	6	0
4	62	53	46	41	53	46	40	36	31	28	25	18	17	15	6	6	5	0
5	57	47	40	35	49	40	35	30	28	24	21	16	14	13	6	5	4	0
6	52	42	35	30	44	36	30	26	25	21	18	15	13	11	5	4	4	0
7	48	37	30	26	41	32	26	22	22	19	16	13	11	10	5	4	3	0
8	44	34	27	22	38	29	23	19	20	16	14	12	10	8	4	3	3	0
9	41	30	24	19	35	26	21	17	18	15	12	11	9	7	4	3	3	0
10	38	28	21	17	33	24	19	15	17	13	11	10	8	6	3	3	2	0

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	68	68	68
5°	72	64	67
10°	66	61	66
15°	62	59	63
20°	58	59	61
25°	60	60	66
30°	62	57	69
35°	54	69	72
40°	49	57	79
45°	57	69	75
50°	47	67	90
55°	47	69	94
60°	40	86	108
65°	47	88	102
70°	42	98	111
75°	29	97	116
80°	41	91	102
85°	24	59	105



TEST NUMBER: 17244
 CATALOG NUMBER: AP-SP-1T5

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	1.0	0.0	0.0
10°-20°	2.9	0.1	0.1
20°-30°	4.7	0.1	0.1
30°-40°	5.8	0.1	0.1
40°-50°	6.9	0.2	0.2
50°-60°	7.5	0.2	0.2
60°-70°	7.7	0.2	0.2
70°-80°	6.9	0.2	0.2
80°-90°	3.9	0.1	0.1
90°-100°	146.6	3.4	3.3
100°-110°	552.3	12.9	12.3
110°-120°	750.1	17.5	16.7
120°-130°	773.7	18.1	17.2
130°-140°	671.6	15.7	14.9
140°-150°	555.9	13.0	12.4
150°-160°	425.3	9.9	9.5
160°-170°	268.4	6.3	6.0
170°-180°	91.7	2.1	2.0
0°-30°	8.6	0.2	0.2
0°-40°	14.4	0.3	0.3
0°-60°	28.8	0.7	0.6
0°-90°	47.4	1.1	1.1
90°-120°	1449.0	33.8	32.2
90°-150°	3450.2	80.6	76.7
90°-180°	4236.0	98.9	94.1
0°-180°	4282.9	100.0	95.2

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11	11	11	11	11	
5°	12	11	11	11	11	1
15°	10	10	10	10	11	3
25°	9	10	10	11	11	4
35°	7	8	11	10	12	5
45°	7	6	10	11	11	5
55°	5	6	9	11	12	4
65°	4	5	9	11	12	3
75°	1	4	8	8	10	2
85°	0	2	3	5	6	1
90°	0	0	2	4	4	2
95°	33	152	121	81	51	39
105°	173	443	605	658	672	183
115°	339	532	865	978	1004	335
125°	502	607	872	1126	1218	449
135°	648	714	858	1018	1094	499
145°	769	817	884	960	997	481
155°	862	886	921	957	972	397
165°	925	939	949	961	967	261
175°	958	965	962	961	963	91
180°	964	964	964	964	964	



TEST NUMBER: 17244
 CATALOG NUMBER: AP-SP-1T5

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11.2	11.2	11.2	11.2	11.2
2.5°	9.8	11.2	9.8	10.7	11.7
5°	11.7	10.7	10.7	10.7	11.2
7.5°	10.7	10.7	10.3	10.3	10.7
10°	10.7	10.3	10.3	10.7	11.2
12.5°	9.8	10.7	10.7	10.3	11.2
15°	9.9	10.3	9.9	10.3	10.7
17.5°	9.9	9.5	9.5	11.2	12.0
20°	9.1	9.5	9.8	10.7	10.3
22.5°	9.5	9.5	11.2	10.3	11.2
25°	9.1	9.5	9.9	10.7	11.2
27.5°	9.5	9.5	10.3	9.8	12.4
30°	9.0	9.1	9.1	10.7	11.5
32.5°	7.7	6.9	9.5	10.7	10.7
35°	7.4	7.7	10.7	10.3	11.7
37.5°	6.1	8.2	8.6	10.3	11.2
40°	6.4	7.7	8.6	10.3	12.4
42.5°	5.6	6.9	9.5	10.7	10.3
45°	6.9	6.4	9.8	10.7	11.2
47.5°	5.6	6.4	9.5	11.2	11.5
50°	5.2	6.9	9.0	10.3	12.8
52.5°	5.6	5.2	8.6	11.2	12.5
55°	4.7	5.6	8.6	10.7	12.5
57.5°	3.9	4.3	9.0	11.1	12.5
60°	3.5	4.7	9.9	10.3	13.3
62.5°	3.1	4.3	8.2	10.4	10.7
65°	3.5	4.7	9.1	10.7	11.5
67.5°	3.1	4.3	8.2	10.3	11.5
70°	2.6	4.7	9.0	9.9	11.2
72.5°	1.4	4.3	8.6	9.5	10.4
75°	1.4	3.9	7.7	8.5	10.3
77.5°	1.0	4.0	6.4	9.0	9.0
80°	1.4	3.5	6.0	7.8	7.7
82.5°	0.5	2.6	5.6	6.4	8.2
85°	0.5	1.8	3.1	5.2	6.5
87.5°	0.5	0.5	2.6	4.3	5.6
90°	0.5	0.5	1.5	3.5	3.9
92.5°	11.5	38.1	9.5	9.5	6.0
95°	32.9	151.8	121.1	80.6	50.9
97.5°	59.0	248.4	303.3	251.0	226.7
100°	94.2	346.5	427.3	461.4	426.5
102.5°	131.3	377.5	511.7	527.1	592.3
105°	173.0	442.6	605.1	658.3	671.5
107.5°	214.4	478.5	687.2	744.8	760.0
110°	254.8	498.5	761.3	826.4	844.8



TEST NUMBER: 17244
 CATALOG NUMBER: AP-SP-1T5

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	296.6	515.1	819.7	903.6	922.7
115°	339.1	531.7	865.3	978.2	1003.6
117.5°	381.0	550.0	889.2	1048.9	1083.8
120°	422.6	569.6	892.9	1101.7	1155.4
122.5°	463.6	596.5	883.2	1126.0	1203.9
125°	502.4	607.2	872.5	1126.5	1218.1
127.5°	540.7	637.3	863.2	1107.6	1206.5
130°	576.4	662.6	860.6	1076.6	1174.1
132.5°	612.7	689.3	857.6	1044.1	1133.7
135°	647.7	714.4	857.6	1018.3	1093.5
137.5°	679.9	739.2	859.8	999.0	1062.5
140°	711.5	764.4	866.2	982.8	1036.6
142.5°	740.5	787.2	874.2	970.5	1015.6
145°	769.4	816.8	883.6	960.3	997.4
147.5°	794.6	825.3	893.9	957.7	985.0
150°	819.7	851.2	902.4	954.3	978.2
152.5°	841.9	868.6	913.4	954.7	975.6
155°	861.8	885.7	921.1	956.9	971.8
157.5°	881.9	901.9	929.9	957.4	970.5
160°	897.7	916.0	935.5	958.5	969.2
162.5°	913.1	927.5	944.1	959.8	967.1
165°	925.4	938.9	949.1	960.7	967.1
167.5°	937.2	950.0	953.1	960.6	965.7
170°	946.5	954.3	957.7	961.1	964.9
172.5°	952.6	960.7	960.3	961.5	964.6
175°	958.2	964.6	962.4	961.2	963.3
177.5°	961.2	967.5	963.8	961.5	963.3
180°	963.8	963.8	963.8	963.8	963.8

(END OF REPORT)