

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: 17241

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 17241
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: AP-WP-1T5
Description: WITH WHITE LENS UNDER LAMP AND WHITE LENS OVER PERFORATIONS

Light Source: ONE SYLVANIA 54 WATT T5 LAMP

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

Ballast/Driver: -

Summary

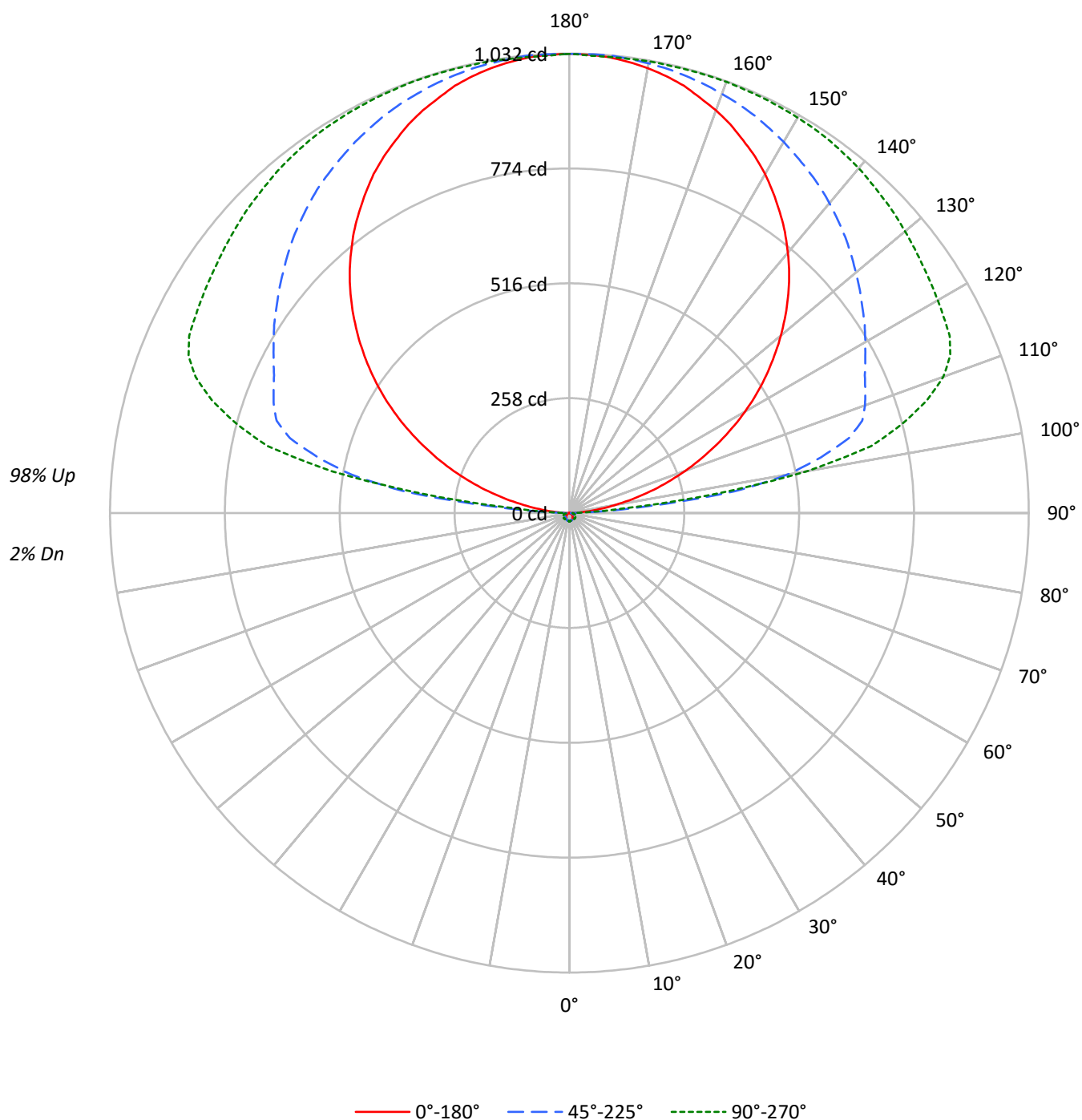
Lumens per Lamp: 4500 (1 lamp)
Luminaire Lumens: 4331.0 lumens
Efficiency: 96.2%
Efficacy: 72.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.47 / 1.45
Luminous Opening: Rectangular w/ Sides (W: 0.48' x L: 3.67' x H: 0.14')
CIE Type: Indirect

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



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	92	92	92	92	79	79	79	79	54	54	54	32	32	32	11	11	11			2
1	84	80	76	73	71	68	66	63	47	46	44	28	27	26	10	9	9			1
2	76	69	64	60	65	60	55	52	41	39	36	24	23	22	8	8	8			1
3	69	61	54	49	59	52	47	43	36	33	30	21	20	18	7	7	6			1
4	63	54	47	41	54	46	40	36	32	28	26	19	17	15	7	6	5			1
5	58	47	40	35	49	41	35	31	28	25	22	17	15	13	6	5	5			1
6	53	42	35	30	45	36	30	26	25	21	19	15	13	11	5	5	4			0
7	49	38	31	26	41	33	27	23	23	19	16	13	11	10	5	4	4			0
8	45	34	27	22	38	29	24	20	20	17	14	12	10	9	4	4	3			0
9	42	31	24	20	36	27	21	17	19	15	12	11	9	7	4	3	3			0
10	39	28	22	17	33	24	19	15	17	13	11	10	8	7	4	3	2			0

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	107	107	107
5°	103	111	105
10°	105	107	104
15°	105	95	100
20°	104	97	101
25°	99	99	101
30°	98	91	98
35°	87	96	101
40°	87	91	104
45°	89	87	112
50°	94	95	115
55°	83	100	126
60°	88	100	129
65°	75	100	130
70°	99	112	140
75°	126	125	146
80°	101	109	126
85°	68	107	125



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	1.7	0.0	0.0
10°-20°	4.8	0.1	0.1
20°-30°	7.3	0.2	0.2
30°-40°	9.1	0.2	0.2
40°-50°	10.1	0.2	0.2
50°-60°	10.8	0.2	0.2
60°-70°	10.2	0.2	0.2
70°-80°	9.0	0.2	0.2
80°-90°	5.6	0.1	0.1
90°-100°	192.2	4.4	4.3
100°-110°	589.0	13.6	13.1
110°-120°	692.0	16.0	15.4
120°-130°	700.5	16.2	15.6
130°-140°	666.6	15.4	14.8
140°-150°	583.5	13.5	13.0
150°-160°	453.3	10.5	10.1
160°-170°	287.1	6.6	6.4
170°-180°	98.2	2.3	2.2
0°-30°	13.8	0.3	0.3
0°-40°	22.8	0.5	0.5
0°-60°	43.7	1.0	1.0
0°-90°	68.6	1.6	1.5
90°-120°	1473.2	34.0	32.7
90°-150°	3423.8	79.1	76.1
90°-180°	4262.0	98.4	94.7
0°-180°	4331.0	100.0	96.2

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18	18	18	18	18	
5°	17	17	18	17	18	2
15°	17	17	16	17	17	5
25°	15	14	16	16	17	7
35°	12	12	15	16	16	8
45°	11	10	12	15	17	8
55°	8	8	12	15	17	7
65°	6	6	10	14	15	6
75°	6	5	10	11	13	5
85°	1	2	6	8	8	2
90°	0	2	6	8	8	2
95°	38	190	177	144	121	45
105°	188	412	650	739	774	199
115°	366	521	732	887	942	362
125°	540	636	804	922	969	482
135°	696	761	876	965	998	536
145°	824	873	937	998	1020	516
155°	924	950	985	1015	1029	426
165°	994	1006	1016	1026	1030	280
175°	1028	1034	1032	1028	1028	98
180°	1031	1031	1031	1031	1031	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	17.5	17.5	17.5	17.5	17.5
2.5°	18.4	17.9	18.4	18.4	18.4
5°	16.8	17.1	18.4	17.1	17.6
7.5°	17.9	17.9	17.5	17.6	17.6
10°	17.1	16.8	17.9	17.5	17.6
12.5°	16.7	17.1	16.3	18.4	17.6
15°	16.8	17.1	15.9	17.1	17.1
17.5°	16.3	16.3	16.7	16.7	17.1
20°	16.2	15.4	16.2	16.8	17.1
22.5°	15.4	15.9	16.2	16.8	17.5
25°	15.0	14.1	16.3	16.3	17.1
27.5°	14.9	15.0	15.9	16.7	17.1
30°	14.2	13.3	14.6	16.3	16.3
32.5°	13.8	13.8	14.9	16.8	16.7
35°	12.0	12.5	14.9	15.9	16.3
37.5°	12.0	11.7	13.3	16.3	17.1
40°	11.2	11.7	13.6	15.9	16.3
42.5°	10.7	10.4	13.3	15.9	15.9
45°	10.7	10.3	12.4	15.4	16.8
47.5°	9.0	9.0	12.8	15.4	17.6
50°	10.3	9.1	12.8	15.4	16.3
52.5°	8.6	9.5	12.8	15.5	16.7
55°	8.2	8.2	12.5	15.0	16.7
57.5°	7.4	8.2	11.5	15.5	15.9
60°	7.7	6.5	11.5	15.0	15.9
62.5°	6.1	6.9	11.1	14.1	14.1
65°	5.6	6.4	10.4	13.8	14.6
67.5°	6.1	6.1	10.7	12.9	15.0
70°	6.1	5.2	10.3	12.8	14.1
72.5°	4.3	5.2	10.7	11.1	12.5
75°	6.1	5.2	9.9	10.7	12.9
77.5°	5.6	4.7	9.1	10.7	11.5
80°	3.5	4.0	7.2	9.9	9.5
82.5°	3.5	3.5	6.5	7.8	9.5
85°	1.4	1.8	5.6	7.8	7.7
87.5°	0.5	0.5	3.5	6.1	6.9
90°	0.5	2.4	6.1	8.5	8.2
92.5°	15.9	56.8	30.4	35.0	32.0
95°	37.6	190.5	177.3	143.7	121.4
97.5°	68.3	290.2	374.6	344.7	331.9
100°	104.0	364.3	497.2	555.2	542.0
102.5°	144.9	382.6	578.9	622.8	694.1
105°	188.4	412.1	649.8	739.2	774.1
107.5°	231.8	436.7	689.8	801.4	841.9
110°	276.6	463.6	706.8	846.2	893.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	321.2	492.1	719.2	874.2	926.2
115°	365.7	520.7	732.3	887.0	942.4
117.5°	411.2	553.0	749.4	895.5	948.8
120°	455.4	583.7	767.3	904.4	955.5
122.5°	498.6	621.6	786.4	916.8	962.5
125°	539.9	636.0	803.5	921.9	969.2
127.5°	580.3	672.8	822.2	935.0	976.9
130°	620.3	702.6	840.1	945.7	984.2
132.5°	658.3	732.8	858.4	956.0	992.3
135°	695.7	761.4	876.4	965.4	998.2
137.5°	730.6	789.0	892.6	973.9	1004.6
140°	763.4	815.8	908.8	982.8	1011.0
142.5°	795.4	842.3	924.0	990.5	1015.6
145°	824.3	872.6	937.2	998.5	1020.3
147.5°	852.5	884.0	949.7	1002.0	1023.3
150°	879.3	911.3	962.4	1007.5	1025.5
152.5°	902.8	930.4	973.5	1011.8	1027.1
155°	923.6	949.6	984.6	1015.2	1028.8
157.5°	944.9	966.3	994.3	1019.5	1029.2
160°	962.4	980.7	1001.7	1022.0	1030.5
162.5°	977.4	994.8	1009.7	1024.1	1030.5
165°	993.5	1005.9	1015.6	1025.9	1030.2
167.5°	1005.0	1018.2	1021.7	1028.4	1029.7
170°	1014.7	1021.7	1025.4	1028.4	1030.2
172.5°	1021.7	1029.7	1028.9	1028.0	1028.9
175°	1027.6	1033.5	1031.9	1028.0	1028.4
177.5°	1030.2	1036.1	1031.4	1028.8	1028.4
180°	1031.4	1031.4	1031.4	1031.4	1031.4

(END OF REPORT)