

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: 17243

Luminaire Tested: **AP-WP-3T5**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: 17243  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: AP-WP-3T5  
Description: WITH WHITE INTERIOR AND WHITE LENS OVER PERFORATIONS  
  
Light Source: THREE SYLVANIA 54 WATT T5 LAMPS  
  
FP54/841/HO. LUMEN RATING = 4500 LMS.  
  
Ballast/Driver: -

**Summary**

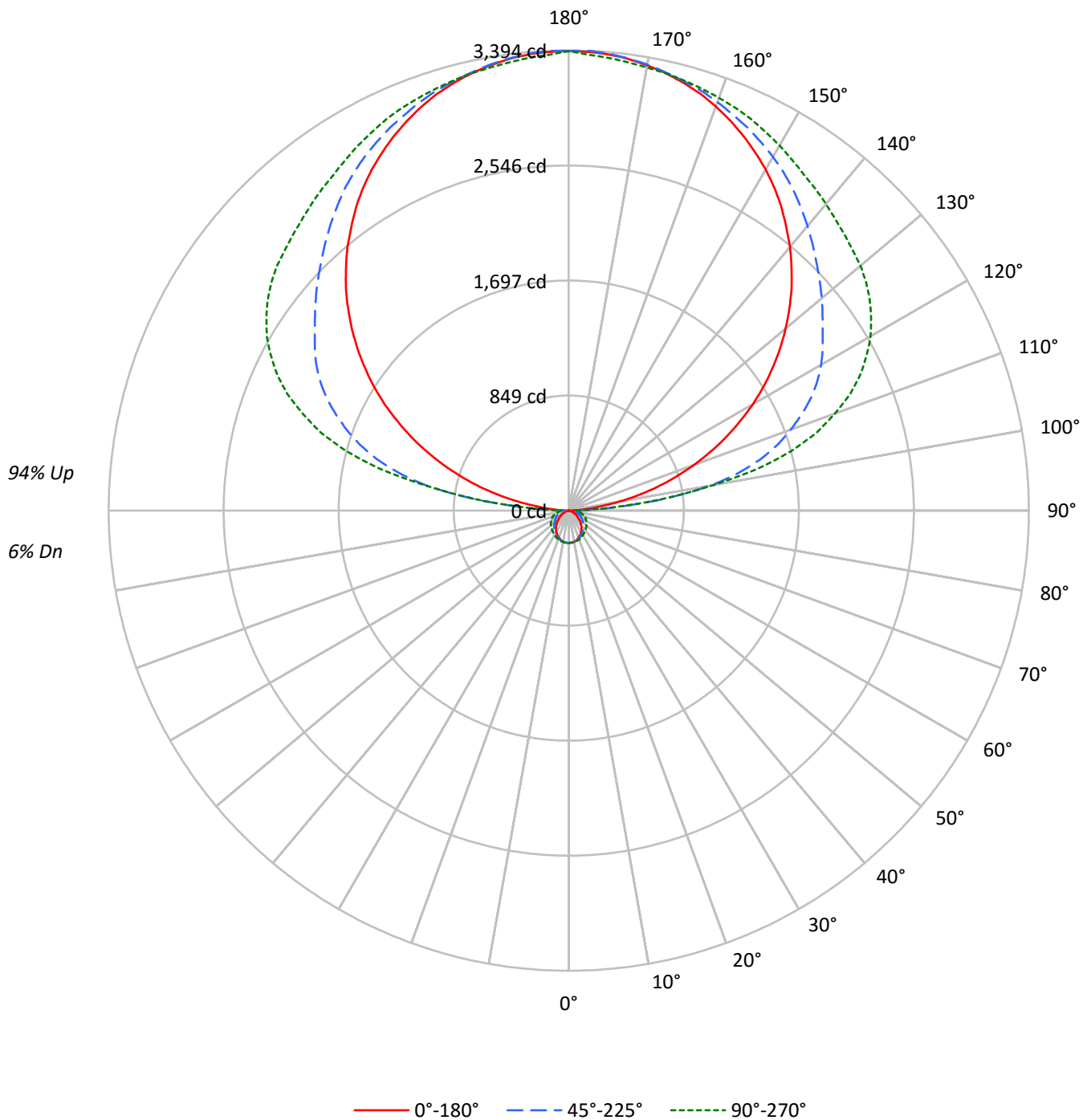
Lumens per Lamp: 4500 (3 lamps)  
Luminaire Lumens: 12973.5 lumens  
Efficiency: 96.1%  
Efficacy: 72.1 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.3 / 1.35  
Luminous Opening: Rectangular w/ Sides (W: 0.48' x L: 3.67' x H: 0.14')  
CIE Type: Indirect  
  
Input Watts (W): 180  
Input Voltage (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				0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		0
RCR																	
0	93	93	93	93	80	80	80	80	56	56	56		35	35	35		5
1	84	80	77	74	73	69	67	64	49	47	46		30	29	28		4
2	77	70	65	60	66	61	56	52	43	40	38		26	25	23		3
3	70	61	55	50	60	53	48	43	38	34	31		23	21	20		3
4	64	54	47	42	55	47	41	37	33	29	27		20	18	17		2
5	58	48	41	35	50	41	36	31	29	26	23		18	16	14		2
6	53	43	35	30	46	37	31	27	26	22	19		16	14	12		2
7	49	38	31	26	42	33	27	23	24	20	17		15	12	11		2
8	45	34	28	23	39	30	24	20	21	17	15		13	11	9		1
9	42	31	24	20	36	27	21	18	19	16	13		12	10	8		1
10	39	28	22	18	34	25	19	16	18	14	11		11	9	7		1

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1459	1459	1459
5°	1446	1437	1422
10°	1441	1385	1388
15°	1415	1346	1349
20°	1367	1308	1337
25°	1327	1266	1297
30°	1265	1213	1257
35°	1189	1157	1241
40°	1115	1092	1218
45°	1025	1055	1191
50°	897	1025	1190
55°	785	965	1210
60°	695	971	1202
65°	581	951	1248
70°	521	931	1222
75°	422	882	1199
80°	252	821	1134
85°	93	738	1084





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	22.5	0.2	0.2
10°-20°	63.9	0.5	0.5
20°-30°	95.5	0.7	0.7
30°-40°	112.9	0.9	0.8
40°-50°	116.3	0.9	0.9
50°-60°	108.4	0.8	0.8
60°-70°	92.3	0.7	0.7
70°-80°	69.6	0.5	0.5
80°-90°	41.5	0.3	0.3
90°-100°	459.9	3.5	3.4
100°-110°	1389.5	10.7	10.3
110°-120°	1867.8	14.4	13.8
120°-130°	2041.8	15.7	15.1
130°-140°	2004.5	15.5	14.8
140°-150°	1803.4	13.9	13.4
150°-160°	1436.8	11.1	10.6
160°-170°	926.2	7.1	6.9
170°-180°	320.6	2.5	2.4
0°-30°	181.9	1.4	1.3
0°-40°	294.8	2.3	2.2
0°-60°	519.5	4.0	3.8
0°-90°	722.9	5.6	5.4
90°-120°	3717.2	28.7	27.5
90°-150°	9567.0	73.7	70.9
90°-180°	12251.0	94.4	90.7
0°-180°	12973.5	100.0	96.1

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	239	239	239	239	239	
5°	237	235	239	238	238	23
15°	226	225	226	227	230	63
25°	200	200	208	212	218	92
35°	164	168	180	194	200	102
45°	123	130	151	169	178	94
55°	78	95	121	150	161	70
65°	44	59	99	123	140	44
75°	20	38	70	96	106	21
85°	2	18	39	57	67	3
90°	0	10	36	51	59	5
95°	118	415	448	429	429	153
105°	677	1080	1465	1649	1701	714
115°	1279	1500	1973	2266	2373	1263
125°	1835	1926	2286	2596	2710	1640
135°	2325	2393	2584	2796	2877	1791
145°	2734	2781	2888	3000	3024	1709
155°	3049	3053	3117	3169	3185	1406
165°	3267	3266	3278	3286	3285	922
175°	3377	3382	3383	3363	3351	321
180°	3388	3388	3388	3388	3388	





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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	238.8	238.8	238.8	238.8	238.8
2.5°	239.1	235.2	237.7	239.1	236.6
5°	236.6	235.2	239.1	237.7	237.7
7.5°	236.6	233.8	235.2	236.6	237.7
10°	233.8	229.9	232.4	235.2	235.2
12.5°	229.9	227.4	231.3	231.3	234.2
15°	226.0	224.9	226.0	227.4	229.9
17.5°	217.1	218.2	222.4	226.3	228.5
20°	213.2	214.6	218.2	220.6	227.4
22.5°	205.7	206.8	213.2	217.1	221.0
25°	200.4	200.0	208.2	211.8	218.5
27.5°	190.1	193.6	201.8	208.2	213.2
30°	183.3	183.3	195.0	204.3	208.2
32.5°	174.1	175.5	187.2	198.9	203.9
35°	163.7	167.7	180.5	193.6	200.4
37.5°	153.4	157.3	173.0	188.3	192.5
40°	144.2	148.1	163.7	180.8	190.1
42.5°	131.4	137.8	159.8	176.5	185.8
45°	123.2	129.6	150.6	169.1	178.0
47.5°	111.5	120.7	144.2	166.6	175.5
50°	98.7	110.4	137.8	159.8	168.7
52.5°	89.4	102.2	130.0	153.1	167.7
55°	77.7	94.7	120.7	149.5	160.9
57.5°	68.4	84.1	117.9	142.8	152.0
60°	60.6	76.3	111.5	135.3	148.1
62.5°	52.8	68.4	103.6	130.0	140.3
65°	43.5	59.2	98.7	123.2	140.3
67.5°	37.1	52.8	90.8	117.9	128.5
70°	32.2	49.2	85.5	109.0	123.2
72.5°	24.0	41.4	76.6	102.6	114.0
75°	20.4	37.5	69.9	95.8	106.1
77.5°	13.7	32.2	62.0	86.6	96.2
80°	8.7	25.4	54.2	77.7	85.5
82.5°	4.8	21.8	46.4	69.9	79.1
85°	1.9	17.6	38.6	56.7	67.0
87.5°	0.5	8.7	27.9	48.9	59.2
90°	0.5	10.5	36.4	51.0	58.8
92.5°	37.1	160.9	175.5	162.3	162.3
95°	118.2	414.8	447.5	429.4	429.4
97.5°	239.1	628.9	766.6	754.1	752.7
100°	376.1	809.6	1066.7	1174.8	1082.4
102.5°	525.8	885.3	1284.0	1323.1	1428.4
105°	676.9	1079.5	1465.0	1648.9	1700.8
107.5°	828.1	1194.0	1615.1	1845.6	1918.5
110°	980.7	1284.0	1742.4	2013.5	2087.8





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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1131.5	1393.6	1861.2	2149.0	2246.8
115°	1278.7	1500.3	1972.9	2266.3	2373.0
117.5°	1422.4	1611.2	2067.2	2375.5	2477.2
120°	1566.8	1724.3	2150.0	2465.5	2571.1
122.5°	1704.8	1871.5	2220.4	2565.8	2644.0
125°	1835.3	1926.3	2285.9	2595.6	2710.5
127.5°	1965.4	2072.1	2359.8	2666.1	2763.9
130°	2087.8	2177.8	2435.6	2708.0	2809.4
132.5°	2207.6	2288.4	2511.0	2751.1	2840.7
135°	2325.0	2392.6	2584.3	2795.5	2877.0
137.5°	2431.7	2488.9	2662.1	2842.1	2912.2
140°	2538.7	2582.8	2739.3	2891.5	2951.6
142.5°	2634.8	2673.9	2813.7	2937.1	2989.3
145°	2734.0	2780.9	2887.6	3000.0	3024.5
147.5°	2822.5	2820.1	2952.7	3021.7	3066.2
150°	2904.7	2917.5	3012.8	3084.3	3108.8
152.5°	2978.7	2986.9	3065.8	3128.8	3146.9
155°	3049.1	3053.4	3117.0	3168.9	3184.6
157.5°	3112.7	3112.7	3161.5	3203.1	3214.8
160°	3171.8	3170.4	3207.0	3234.0	3239.4
162.5°	3224.1	3221.2	3247.2	3260.3	3262.8
165°	3266.7	3265.7	3278.5	3286.3	3284.9
167.5°	3304.4	3314.8	3309.8	3312.3	3303.0
170°	3334.3	3326.8	3339.7	3322.6	3318.7
172.5°	3360.6	3363.1	3363.1	3347.5	3335.7
175°	3377.3	3381.6	3382.7	3363.1	3351.4
177.5°	3386.6	3393.0	3394.4	3378.8	3365.6
180°	3388.1	3388.1	3388.1	3388.1	3388.1

(END OF REPORT)