

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: 15724

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 15724  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: IP-WP-3T5  
Description: CORELITE 3 LAMP T5 DIRECT/INDIRECT LUMINAIRE - IRIIDIUM PERF

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: ONE SYL. QT1 AND ONE QT2X54/120PHO BALLAST OPERATING AT 120 VAC AND 180 WATTS

**Summary**

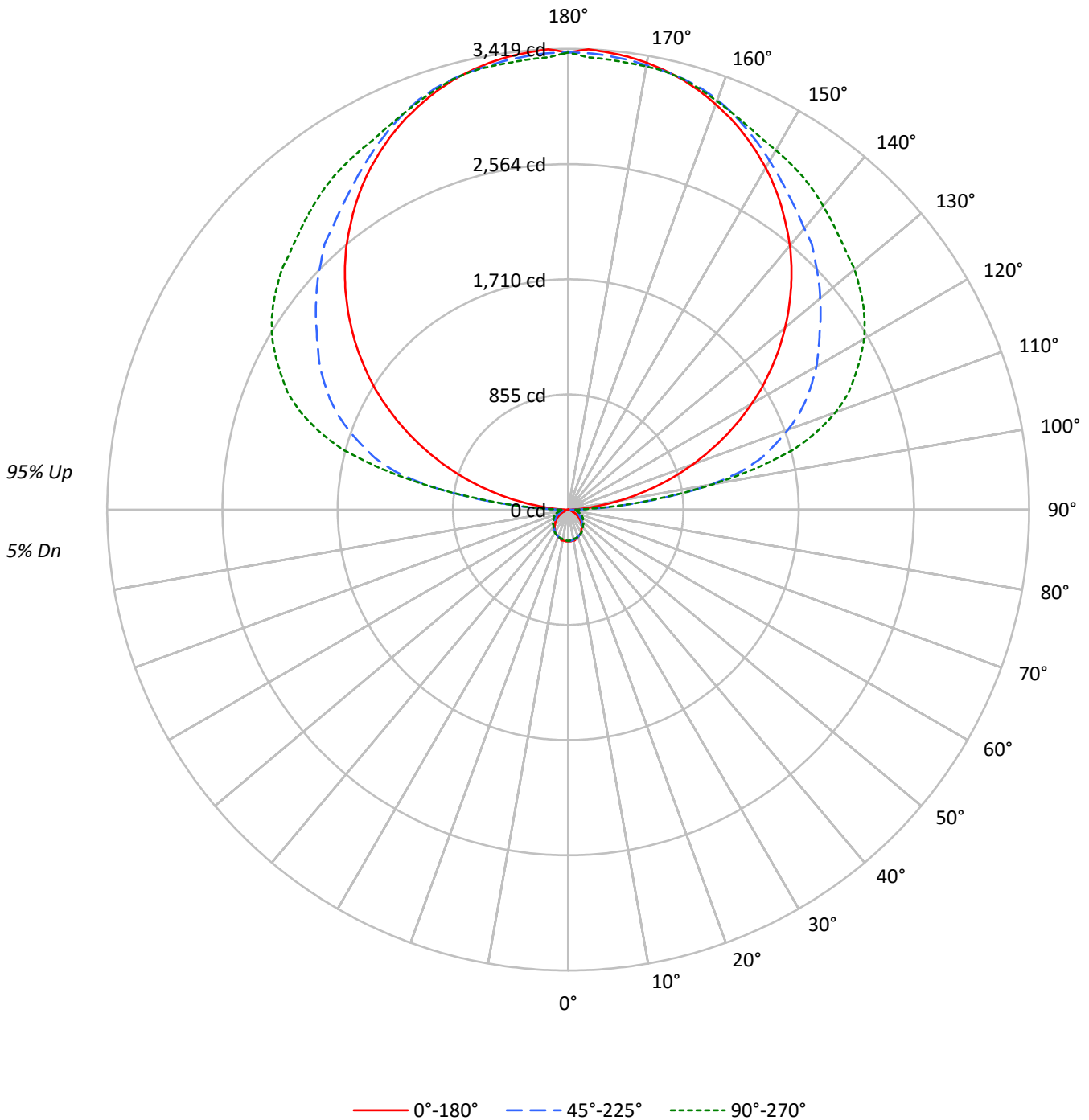
Lumens per Lamp: 4500 (3 lamps)  
Luminaire Lumens: 12920.5 lumens  
Efficiency: 95.7%  
Efficacy: 71.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.34  
Luminous Opening: Rectangular w/ Sides (W: 4' x L: 0.75' x H: 0.25')  
CIE Type: Indirect

Input Watts (W): 180  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	92	92	92	92	80	80	80	80	56	56	56	34	34	34	14	14	14	5
1	84	80	77	73	72	69	66	64	49	47	45	30	29	28	13	12	12	4
2	76	70	64	60	66	60	56	52	42	40	37	26	25	23	11	10	10	3
3	69	61	55	50	60	53	48	43	37	34	31	23	21	20	10	9	8	3
4	63	54	47	42	54	47	41	36	33	29	26	20	18	17	9	8	7	2
5	58	48	41	35	50	41	35	31	29	25	22	18	16	14	8	7	6	2
6	53	42	35	30	46	37	31	27	26	22	19	16	14	12	7	6	5	2
7	49	38	31	26	42	33	27	23	24	20	17	15	12	11	6	5	5	2
8	45	34	27	23	39	30	24	20	21	17	15	13	11	9	6	5	4	1
9	42	31	24	20	36	27	21	18	19	16	13	12	10	8	5	4	4	1
10	39	28	22	18	33	25	19	15	18	14	11	11	9	7	5	4	3	1

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

	0°	45°	90°
0°	835	835	835
5°	823	812	820
10°	800	790	806
15°	763	773	805
20°	741	737	794
25°	698	719	794
30°	671	688	783
35°	615	657	763
40°	566	620	756
45°	514	584	746
50°	451	545	733
55°	389	531	770
60°	311	492	811
65°	221	473	844
70°	163	443	886
75°	101	413	934
80°	4	357	1005
85°	4	270	1193



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	22.0	0.2	0.2
10°-20°	62.8	0.5	0.5
20°-30°	94.2	0.7	0.7
30°-40°	111.6	0.9	0.8
40°-50°	113.2	0.9	0.8
50°-60°	103.0	0.8	0.8
60°-70°	83.9	0.6	0.6
70°-80°	59.1	0.5	0.4
80°-90°	31.3	0.2	0.2
90°-100°	460.3	3.6	3.4
100°-110°	1394.8	10.8	10.3
110°-120°	1858.6	14.4	13.8
120°-130°	2025.7	15.7	15.0
130°-140°	2002.2	15.5	14.8
140°-150°	1804.6	14.0	13.4
150°-160°	1438.9	11.1	10.7
160°-170°	932.6	7.2	6.9
170°-180°	321.7	2.5	2.4
0°-30°	179.0	1.4	1.3
0°-40°	290.6	2.2	2.2
0°-60°	506.8	3.9	3.8
0°-90°	681.1	5.3	5.0
90°-120°	3713.6	28.7	27.5
90°-150°	9546.2	73.9	70.7
90°-180°	12239.0	94.7	90.7
0°-180°	12920.5	100.0	95.7

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	233	233	233	233	233	
5°	235	235	231	228	229	22
15°	224	225	224	220	220	63
25°	204	202	205	204	206	94
35°	173	174	180	183	182	109
45°	135	141	147	156	156	104
55°	92	102	119	129	134	82
65°	45	66	89	108	113	46
75°	16	34	61	81	83	17
85°	0	9	28	46	50	1
90°	0	9	35	37	43	5
95°	123	423	450	430	435	157
105°	681	1044	1484	1683	1736	719
115°	1280	1511	1950	2247	2346	1266
125°	1844	1917	2276	2554	2669	1648
135°	2338	2398	2593	2782	2850	1803
145°	2755	2829	2851	2986	3024	1723
155°	3078	3100	3121	3135	3143	1419
165°	3299	3294	3308	3306	3306	931
175°	3405	3402	3381	3358	3353	324
180°	3392	3392	3392	3392	3392	



TEST NUMBER: 15724

CATALOG NUMBER: IP-WP-3T5

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	232.6	232.6	232.6	232.6	232.6
2.5°	236.2	235.2	233.8	228.8	229.8
5°	235.2	235.2	231.1	227.8	228.8
7.5°	232.5	232.5	229.8	228.8	227.4
10°	232.5	231.1	227.4	226.4	223.7
12.5°	232.5	226.4	221.4	225.1	220.0
15°	223.7	225.1	223.7	220.0	220.3
17.5°	217.6	220.3	219.0	220.3	216.3
20°	217.6	213.9	212.6	219.0	212.6
22.5°	209.2	208.9	208.9	210.2	210.2
25°	203.8	201.5	205.2	204.2	206.5
27.5°	199.1	197.7	199.1	201.5	201.5
30°	193.0	188.0	193.0	193.4	195.7
32.5°	183.2	184.6	184.6	188.3	189.3
35°	173.1	174.5	179.5	183.2	181.9
37.5°	164.7	164.7	169.8	178.2	175.8
40°	154.6	158.6	163.4	168.4	169.8
42.5°	146.2	147.5	153.6	162.0	163.4
45°	135.0	141.4	147.2	156.3	156.3
47.5°	126.6	127.6	137.4	147.5	153.6
50°	112.8	117.5	130.3	142.5	141.1
52.5°	105.4	107.7	122.9	136.4	141.1
55°	91.9	101.7	118.8	129.0	134.0
57.5°	80.7	90.5	111.4	123.9	130.0
60°	68.3	82.1	101.7	117.8	125.3
62.5°	56.1	70.6	95.6	111.4	117.8
65°	44.7	65.9	89.2	107.7	112.8
67.5°	37.3	56.1	79.4	101.7	109.1
70°	29.8	46.0	74.7	92.9	99.0
72.5°	22.4	39.6	69.6	86.8	94.2
75°	16.3	33.5	60.9	80.7	83.1
77.5°	12.6	26.1	54.8	70.6	76.7
80°	0.5	22.8	44.7	62.2	65.9
82.5°	1.5	14.0	38.6	53.4	59.8
85°	0.5	8.9	27.5	46.0	49.7
87.5°	0.5	2.9	18.7	38.6	43.7
90°	0.5	8.9	35.2	36.6	43.3
92.5°	38.6	159.6	174.5	152.2	155.9
95°	122.9	423.0	450.0	430.1	435.1
97.5°	242.3	638.8	768.6	746.3	744.0
100°	383.2	818.2	1079.8	1173.9	1090.9
102.5°	529.2	884.6	1315.8	1328.0	1431.8
105°	680.9	1044.1	1483.7	1682.7	1735.9
107.5°	835.0	1155.0	1609.5	1867.8	1939.6
110°	983.4	1263.9	1734.6	2023.6	2109.9



TEST NUMBER: 15724  
 CATALOG NUMBER: IP-WP-3T5

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1131.7	1391.0	1851.6	2144.6	2246.8
115°	1280.1	1511.0	1950.4	2246.8	2345.9
117.5°	1428.1	1625.7	2038.4	2348.3	2443.3
120°	1571.4	1733.2	2127.1	2434.6	2534.7
122.5°	1712.0	1867.8	2198.9	2524.6	2607.5
125°	1844.5	1917.3	2276.4	2554.3	2669.3
127.5°	1975.0	2055.3	2359.4	2626.4	2721.2
130°	2098.7	2165.5	2439.6	2674.0	2773.1
132.5°	2221.1	2282.8	2519.9	2727.2	2806.5
135°	2338.5	2397.8	2593.0	2781.9	2849.6
137.5°	2450.8	2496.3	2674.3	2836.2	2896.8
140°	2558.3	2608.9	2723.5	2890.4	2942.4
142.5°	2655.8	2712.7	2785.6	2936.3	2986.9
145°	2754.6	2828.7	2851.0	2985.5	3024.0
147.5°	2845.9	2869.5	2918.8	3001.7	3053.3
150°	2929.9	2972.0	2988.2	3045.9	3080.9
152.5°	3006.4	3037.4	3057.3	3089.4	3105.6
155°	3078.2	3099.5	3121.4	3135.2	3143.3
157.5°	3143.7	3156.1	3184.1	3181.8	3183.1
160°	3200.3	3209.1	3237.4	3227.6	3226.3
162.5°	3253.6	3252.2	3278.2	3270.8	3268.4
165°	3299.4	3294.4	3307.9	3305.5	3305.5
167.5°	3336.5	3342.6	3330.5	3327.8	3330.1
170°	3367.2	3354.7	3348.7	3337.5	3340.2
172.5°	3390.5	3383.4	3367.2	3351.0	3345.0
175°	3405.3	3401.9	3380.7	3358.4	3353.4
177.5°	3419.1	3410.4	3390.5	3365.9	3359.8
180°	3391.8	3391.8	3391.8	3391.8	3391.8

(END OF REPORT)