

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: 15166

Luminaire Tested: **AI-WN-3T5**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 15166
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: AI-WN-3T5
Description: WITH WHITE INTERIOR

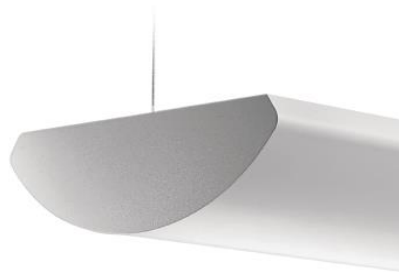
Light Source: THREE SYLVANIA 54 WATT T5 LAMPS
FP54T5/835HO. LUMEN RATING = 4500 LMS.

Ballast/Driver: -

Summary

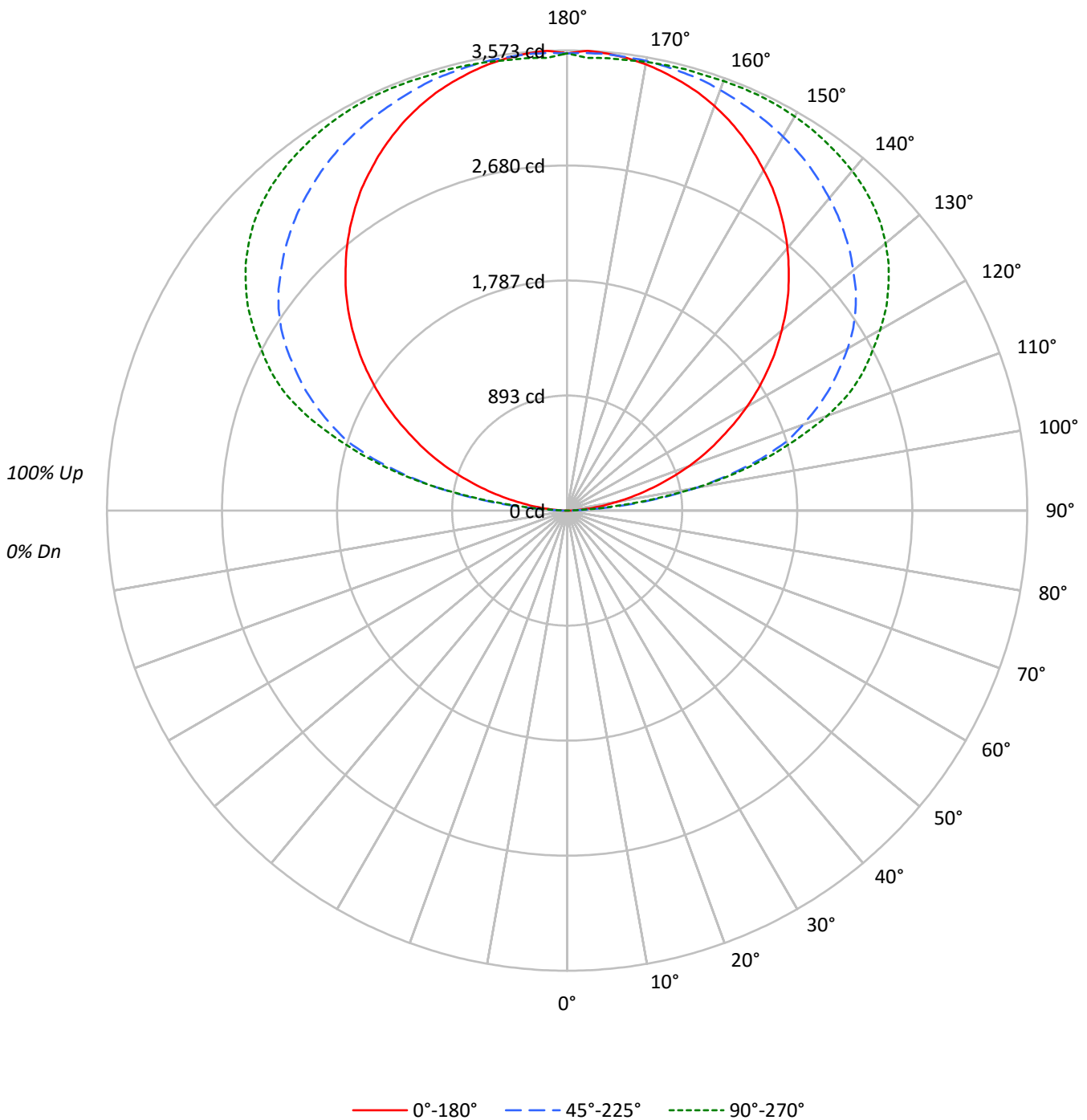
Lumens per Lamp: 4500 (3 lamps)
Luminaire Lumens: 13549.0 lumens
Efficiency: 100.4%
Efficacy: 74.0 lumens/watt
N/A
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Indirect

Input Watts (W): 183
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													
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10										
RCR																														
0	96	96	96	96	82	82	82	82	56	56	56	32	32	32	10	10	10	0												
1	87	83	79	76	74	71	68	65	49	47	45	28	27	26	9	9	9	0												
2	79	72	67	62	67	62	57	54	42	40	37	24	23	22	8	7	7	0												
3	72	63	57	51	61	54	49	45	37	34	31	22	20	18	7	6	6	0												
4	66	56	49	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0												
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0												
6	55	44	37	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0												
7	51	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0												
8	47	35	28	23	40	30	25	20	21	17	14	12	10	9	4	3	3	0												
9	43	32	25	21	37	28	22	18	19	15	13	11	9	8	4	3	3	0												
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
95°	Luminaire represents a point source (luminous area is zero).		
100°	No luminance values can be calculated.		
105°			
110°			
115°			
120°			
125°			
130°			
135°			
140°			
145°			
150°			
155°			
160°			
165°			
170°			
175°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	0.0	0.0	0.0
10°-20°	0.0	0.0	0.0
20°-30°	0.0	0.0	0.0
30°-40°	0.0	0.0	0.0
40°-50°	0.0	0.0	0.0
50°-60°	0.0	0.0	0.0
60°-70°	0.0	0.0	0.0
70°-80°	0.0	0.0	0.0
80°-90°	0.0	0.0	0.0
90°-100°	425.0	3.1	3.1
100°-110°	1457.9	10.8	10.8
110°-120°	2096.7	15.5	15.5
120°-130°	2342.4	17.3	17.4
130°-140°	2299.7	17.0	17.0
140°-150°	2025.2	14.9	15.0
150°-160°	1571.8	11.6	11.6
160°-170°	992.1	7.3	7.3
170°-180°	338.3	2.5	2.5
0°-30°	0.0	0.0	0.0
0°-40°	0.0	0.0	0.0
0°-60°	0.0	0.0	0.0
0°-90°	0.0	0.0	0.0
90°-120°	3979.6	29.4	29.5
90°-150°	10646.9	78.6	78.9
90°-180°	13549.0	100.0	100.4
0°-180°	13549.0	100.0	100.4

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
90°	0	0	0	0	0	
95°	150	402	397	352	340	182
105°	688	1256	1560	1620	1622	732
115°	1307	1852	2253	2477	2533	1295
125°	1902	2264	2735	2957	3046	1698
135°	2430	2683	3045	3293	3359	1873
145°	2871	3043	3272	3456	3497	1796
155°	3211	3291	3419	3520	3551	1480
165°	3444	3472	3517	3540	3547	972
175°	3562	3560	3557	3535	3526	339
180°	3550	3550	3550	3550	3550	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
90°	0.5	0.5	0.5	0.5	0.5
92.5°	53.9	139.6	109.0	97.4	83.8
95°	150.1	402.4	396.6	351.7	340.5
97.5°	266.7	674.4	712.8	690.3	672.7
100°	393.9	954.5	1022.8	1106.5	1011.6
102.5°	540.7	1042.9	1294.2	1253.0	1341.4
105°	688.0	1255.7	1559.7	1619.5	1621.9
107.5°	847.1	1424.0	1788.8	1885.7	1889.8
110°	1005.2	1585.5	1950.7	2127.5	2149.9
112.5°	1159.9	1726.6	2106.4	2325.3	2366.5
115°	1306.7	1852.4	2253.3	2477.3	2533.4
117.5°	1457.7	1966.7	2382.8	2617.1	2669.4
120°	1610.7	2081.2	2514.7	2754.1	2806.4
122.5°	1757.6	2214.8	2633.4	2906.0	2938.0
125°	1902.1	2264.5	2735.0	2957.0	3046.5
127.5°	2041.5	2395.0	2824.8	3082.5	3146.4
130°	2174.7	2492.3	2899.6	3166.1	3228.4
132.5°	2306.6	2589.5	2978.1	3235.8	3302.1
135°	2430.4	2683.0	3045.1	3293.3	3359.2
137.5°	2546.0	2771.4	3110.0	3336.8	3406.2
140°	2661.9	2857.1	3167.5	3381.3	3443.9
142.5°	2769.0	2941.7	3220.9	3418.7	3472.5
145°	2871.0	3043.1	3271.9	3456.1	3497.3
147.5°	2967.9	3077.7	3315.7	3466.3	3518.7
150°	3051.6	3169.5	3351.8	3497.6	3533.7
152.5°	3136.2	3232.1	3387.8	3509.9	3544.9
155°	3210.7	3290.6	3418.7	3519.7	3551.0
157.5°	3281.7	3344.3	3447.3	3527.2	3551.0
160°	3342.9	3392.6	3476.2	3531.3	3549.6
162.5°	3399.0	3436.4	3501.4	3535.0	3544.5
165°	3443.9	3472.5	3517.3	3539.8	3547.3
167.5°	3483.7	3511.2	3532.3	3538.4	3542.5
170°	3518.7	3523.5	3545.9	3538.4	3537.4
172.5°	3544.5	3548.6	3551.0	3537.4	3528.6
175°	3562.2	3559.5	3557.1	3534.7	3526.2
177.5°	3573.4	3569.7	3556.1	3527.2	3518.7
180°	3549.8	3549.8	3549.8	3549.8	3549.8

(END OF REPORT)