

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: 15167

Luminaire Tested: **AI-WN-1T5**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 15167
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: AI-WN-1T5
Description: WITH WHITE INTERIOR

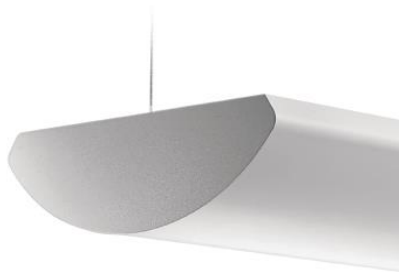
Light Source: ONE SYLVANIA 54 WATT T5 LAMP
FP54T5/835HO. LUMEN RATING = 4500 LMS.

Ballast/Driver: -

Summary

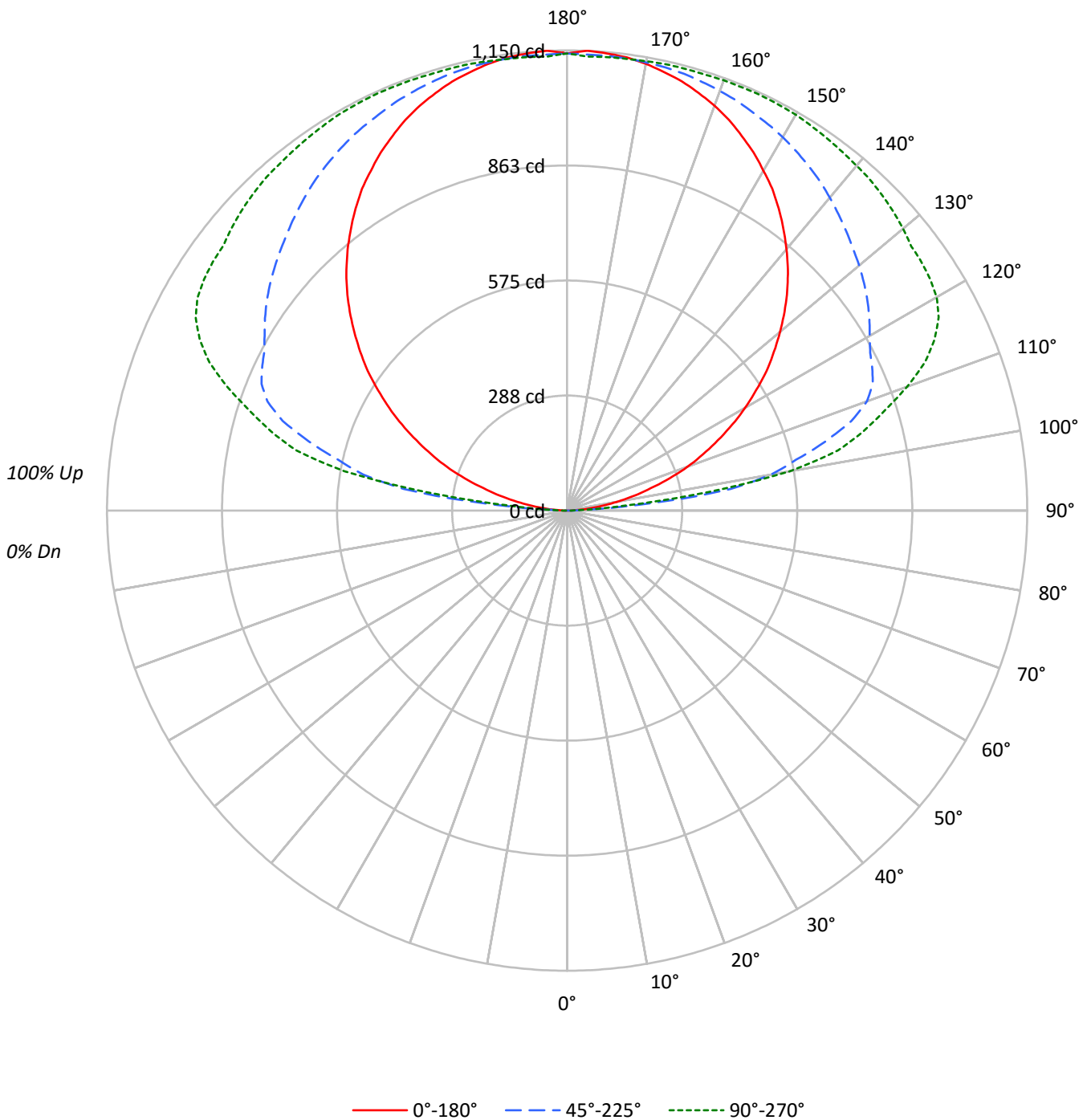
Lumens per Lamp: 4500 (1 lamp)
Luminaire Lumens: 4739.0 lumens
Efficiency: 105.3%
Efficacy: 76.4 lumens/watt
N/A
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Indirect

Input Watts (W): 62
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				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	20		
RCR																				
0	100	100	100	100	86	86	86	86	59	59	59	34	34	34	11	11	11	0		
1	91	87	83	80	78	74	71	69	51	49	48	29	28	28	9	9	9	0		
2	83	76	70	65	71	65	60	56	45	42	39	26	24	23	8	8	7	0		
3	76	67	60	54	64	57	51	47	39	36	33	23	21	19	7	7	6	0		
4	69	59	51	45	59	50	44	39	35	31	28	20	18	16	6	6	5	0		
5	63	52	44	38	54	45	38	33	31	27	24	18	16	14	6	5	5	0		
6	58	46	38	33	49	40	33	29	27	23	20	16	14	12	5	4	4	0		
7	53	41	34	28	45	36	29	25	25	20	17	14	12	10	5	4	3	0		
8	49	37	30	25	42	32	26	21	22	18	15	13	11	9	4	3	3	0		
9	45	34	26	22	39	29	23	19	20	16	13	12	10	8	4	3	3	0		
10	42	30	24	19	36	26	20	17	18	14	12	11	9	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°	210.8	4.4	4.7
100°-110°	625.9	13.2	13.9
110°-120°	775.7	16.4	17.2
120°-130°	791.7	16.7	17.6
130°-140°	748.8	15.8	16.6
140°-150°	652.5	13.8	14.5
150°-160°	505.6	10.7	11.2
160°-170°	319.1	6.7	7.1
170°-180°	108.8	2.3	2.4
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°	1612.4	34.0	35.8
90°-150°	3805.5	80.3	84.6
90°-180°	4739.0	100.0	105.3
0°-180°	4739.0	100.0	105.3

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
90°	0	0	0	0	0	
95°	50	210	211	166	148	59
105°	217	492	668	745	767	232
115°	416	608	842	983	1013	412
125°	608	727	916	1036	1082	542
135°	778	861	987	1083	1114	600
145°	922	977	1052	1115	1134	576
155°	1033	1056	1098	1133	1145	476
165°	1110	1117	1130	1139	1143	313
175°	1147	1144	1141	1138	1138	109
180°	1142	1142	1142	1142	1142	



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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°	15.8	73.0	39.0	38.7	30.7
95°	50.3	210.3	211.2	165.9	147.7
97.5°	86.8	298.6	411.8	377.9	355.9
100°	127.0	407.8	517.6	587.8	564.9
102.5°	171.7	440.5	586.0	642.9	693.1
105°	217.3	492.3	668.2	745.4	766.9
107.5°	269.2	518.0	745.3	816.3	832.8
110°	320.2	547.9	797.3	884.7	903.8
112.5°	367.5	579.1	826.7	942.8	967.7
115°	415.7	608.4	841.5	983.0	1013.3
117.5°	465.4	637.5	853.6	1008.3	1046.8
120°	513.5	668.6	873.0	1020.8	1066.3
122.5°	560.3	711.7	895.4	1031.9	1075.8
125°	608.5	726.7	916.1	1036.1	1081.7
127.5°	651.5	768.5	934.9	1049.8	1084.5
130°	694.3	799.8	952.7	1062.1	1095.8
132.5°	737.0	829.1	969.3	1074.2	1105.8
135°	778.1	860.7	986.7	1082.9	1114.1
137.5°	816.7	886.7	1004.1	1091.6	1121.1
140°	853.1	915.4	1021.1	1097.4	1125.2
142.5°	888.0	943.1	1037.8	1106.1	1129.8
145°	921.6	977.2	1051.8	1115.3	1134.3
147.5°	954.0	987.9	1065.0	1119.0	1138.5
150°	980.9	1017.5	1077.5	1126.9	1142.3
152.5°	1009.1	1038.5	1088.2	1130.6	1143.8
155°	1032.8	1056.4	1097.9	1133.4	1145.1
157.5°	1056.8	1074.2	1108.2	1135.1	1144.3
160°	1076.7	1090.7	1116.1	1136.4	1144.3
162.5°	1094.1	1106.1	1123.2	1138.1	1142.6
165°	1110.3	1116.6	1129.8	1139.3	1142.6
167.5°	1121.9	1128.1	1134.3	1139.8	1142.6
170°	1133.9	1132.7	1137.3	1140.2	1140.1
172.5°	1142.3	1140.9	1139.3	1139.3	1138.5
175°	1146.8	1144.3	1140.6	1138.5	1137.6
177.5°	1150.5	1146.3	1140.6	1137.6	1135.6
180°	1142.3	1142.3	1142.3	1142.3	1142.3

(END OF REPORT)