

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: 26354

Luminaire Tested: **I2-WD-3T5-1C-UNV-04**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 26354
Test Lab: LIGHTING SCIENCES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: I2-WD-3T5-1C-UNV-04
Description: WITH WHITE INTERIOR AND WHITE PLASTIC LENS OVER WHITE PERF

Light Source: THREE PHILIPS 54 WATT T5 LAMPS

F54T5/835HO. LUMEN RATING = 4500 LMS.

Ballast/Driver: -

Summary

Lumens per Lamp: 4500 (3 lamps)
Luminaire Lumens: 11564.8 lumens
Efficiency: 85.7%
Efficacy: 65.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.26 / 1.36
Luminous Opening: Rectangular (W 0.31' x L: 3.67' x H: 0')
CIE Type: Indirect

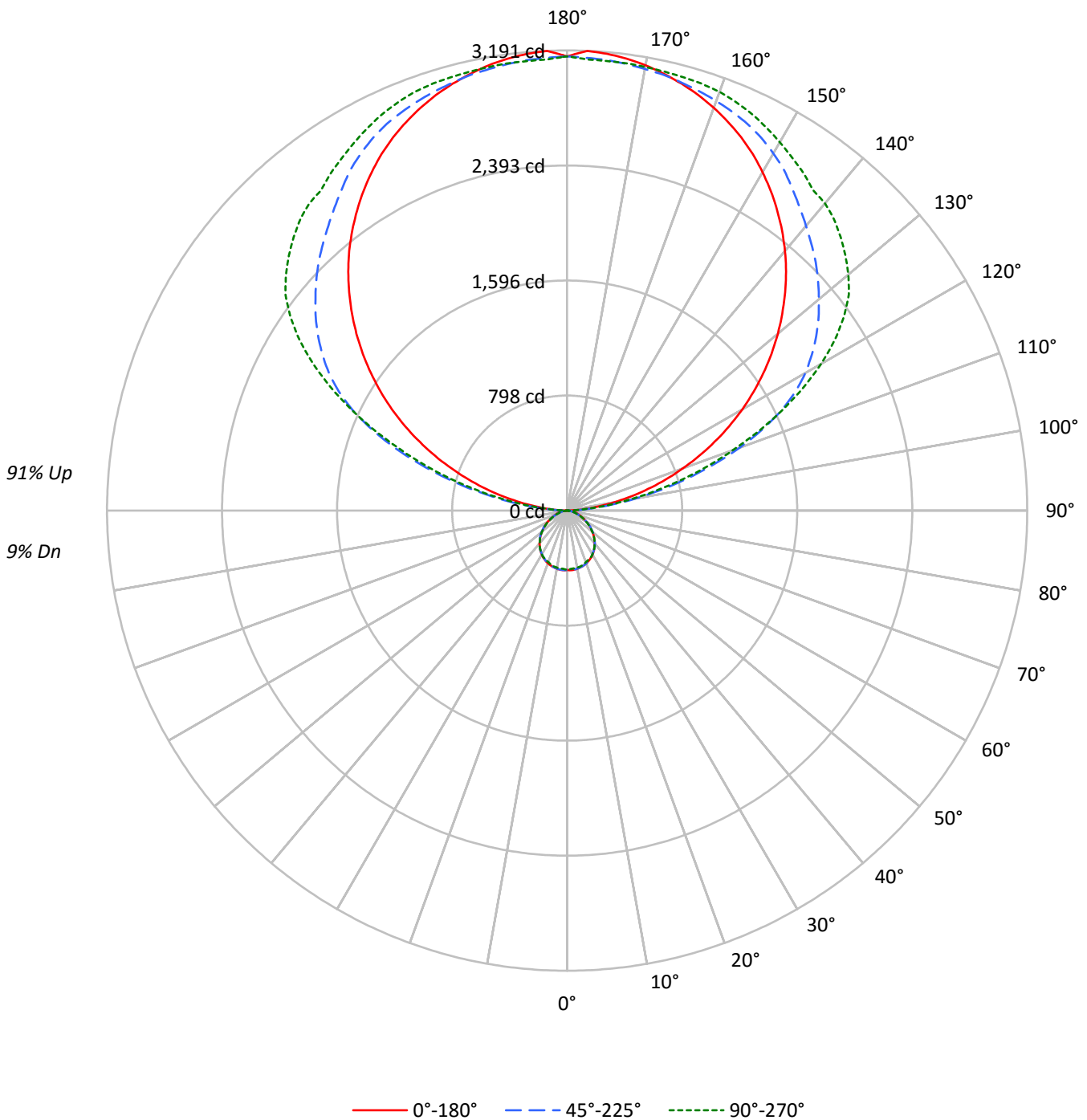
Input Watts (W): 176.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: 26354

CATALOG NUMBER: I2-WD-3T5-1C-UNV-04

Luminous Intensity Polar Plot





TEST NUMBER: 26354

CATALOG NUMBER: I2-WD-3T5-1C-UNV-04

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	84	84	84	84	73	73	73	73	52	52	52	33	33	33	16	16	16	8
1	76	73	69	67	66	63	61	58	45	44	42	29	28	28	14	14	14	7
2	69	63	58	54	60	55	51	48	40	37	35	26	24	23	13	12	11	6
3	63	56	50	45	55	48	44	40	35	32	29	23	21	19	11	10	10	5
4	58	49	43	38	50	43	38	34	31	28	25	20	18	17	10	9	8	4
5	53	43	37	32	45	38	33	29	28	24	21	18	16	14	9	8	7	4
6	48	39	32	28	42	34	28	25	25	21	18	16	14	12	8	7	6	3
7	44	35	28	24	38	30	25	21	22	19	16	14	12	11	7	6	6	3
8	41	31	25	21	36	27	22	19	20	16	14	13	11	9	7	6	5	3
9	38	28	22	18	33	25	20	16	18	15	12	12	10	8	6	5	4	2
10	35	26	20	16	31	23	18	14	17	13	11	11	9	7	6	5	4	2

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3896	3896	3896
5°	3934	3920	3839
10°	3932	3925	3860
15°	3931	3932	3862
20°	3919	3916	3829
25°	3895	3869	3842
30°	3852	3818	3830
35°	3775	3772	3763
40°	3667	3690	3666
45°	3531	3572	3536
50°	3359	3409	3343
55°	3152	3197	3113
60°	2920	2925	2848
65°	2675	2613	2577
70°	2462	2271	2202
75°	2482	1956	1886
80°	2316	1662	1520
85°	1900	1552	1314



TEST NUMBER: 26354

CATALOG NUMBER: I2-WD-3T5-1C-UNV-04

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	39.2	0.3	0.3
10°-20°	112.8	1.0	0.8
20°-30°	171.1	1.5	1.3
30°-40°	204.2	1.8	1.5
40°-50°	204.0	1.8	1.5
50°-60°	171.1	1.5	1.3
60°-70°	115.7	1.0	0.9
70°-80°	58.9	0.5	0.4
80°-90°	17.6	0.2	0.1
90°-100°	198.2	1.7	1.5
100°-110°	857.4	7.4	6.4
110°-120°	1485.2	12.8	11.0
120°-130°	1833.6	15.9	13.6
130°-140°	1873.0	16.2	13.9
140°-150°	1696.9	14.7	12.6
150°-160°	1357.9	11.7	10.1
160°-170°	869.2	7.5	6.4
170°-180°	298.8	2.6	2.2
0°-30°	323.1	2.8	2.4
0°-40°	527.3	4.6	3.9
0°-60°	902.5	7.8	6.7
0°-90°	1094.6	9.5	8.1
90°-120°	2540.8	22.0	18.8
90°-150°	7944.3	68.7	58.8
90°-180°	10470.0	90.5	77.6
0°-180°	11564.8	100.0	85.7

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	412	412	412	412	412	
5°	414	412	413	413	404	39
15°	401	400	401	401	394	113
25°	373	372	371	372	368	172
35°	327	326	327	330	326	204
45°	264	262	267	267	264	203
55°	191	191	194	192	189	171
65°	120	116	117	117	115	119
75°	68	53	54	54	52	71
85°	18	16	14	14	12	20
90°	1	5	4	4	3	6
95°	118	180	164	145	134	141
105°	583	853	865	835	814	618
115°	1128	1353	1637	1655	1645	1116
125°	1661	1815	2109	2302	2344	1483
135°	2138	2251	2438	2618	2682	1648
145°	2540	2596	2723	2814	2857	1589
155°	2856	2867	2959	3008	3034	1316
165°	3065	3040	3071	3093	3111	865
175°	3180	3141	3136	3124	3129	302
180°	3149	3149	3149	3149	3149	



TEST NUMBER: 26354

CATALOG NUMBER: I2-WD-3T5-1C-UNV-04

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	411.8	411.8	411.8	411.8	411.8
2.5°	414.8	413.1	413.4	414.0	407.0
5°	414.2	411.9	412.7	412.6	404.2
7.5°	412.2	410.6	411.1	410.7	403.4
10°	409.3	407.6	408.6	408.4	401.8
12.5°	405.8	404.0	405.2	406.0	399.1
15°	401.3	399.6	401.4	401.3	394.3
17.5°	395.8	394.3	395.8	394.3	387.9
20°	389.2	388.1	388.9	386.7	380.3
22.5°	381.7	381.4	380.3	379.3	373.8
25°	373.1	372.4	370.6	371.6	368.0
27.5°	363.4	362.8	360.2	364.3	360.5
30°	352.6	351.5	349.5	354.8	350.6
32.5°	340.3	338.9	338.3	342.6	338.4
35°	326.8	325.8	326.6	329.5	325.8
37.5°	312.2	310.9	313.5	315.1	312.0
40°	296.9	295.3	298.8	300.0	296.8
42.5°	280.7	278.8	283.1	283.6	280.6
45°	263.9	262.0	267.0	266.6	264.3
47.5°	246.3	244.8	249.7	249.4	246.6
50°	228.2	227.6	231.6	230.4	227.1
52.5°	209.5	209.7	212.9	211.8	207.9
55°	191.1	190.9	193.8	191.9	188.7
57.5°	172.7	172.1	174.6	172.0	169.1
60°	154.3	152.7	154.6	152.5	150.5
62.5°	136.2	133.9	135.3	134.3	132.8
65°	119.5	115.5	116.7	116.8	115.1
67.5°	103.1	98.4	98.5	99.2	96.8
70°	89.0	81.6	82.1	82.5	79.6
72.5°	78.2	66.3	67.1	67.6	64.9
75°	67.9	52.9	53.5	54.4	51.6
77.5°	55.8	41.5	41.1	41.9	39.2
80°	42.5	31.7	30.5	30.6	27.9
82.5°	29.3	22.8	21.7	21.7	19.3
85°	17.5	15.6	14.3	14.3	12.1
87.5°	9.7	10.5	8.9	9.2	7.5
90°	0.9	4.9	4.1	3.9	2.8
92.5°	32.8	58.8	51.4	46.3	44.1
95°	118.0	180.0	163.6	144.7	134.4
97.5°	217.9	337.0	309.1	290.7	278.3
100°	329.5	513.1	482.1	450.2	434.6
102.5°	452.7	691.1	669.3	641.5	623.5
105°	582.9	852.6	865.4	834.8	814.1
107.5°	716.2	994.1	1069.6	1037.9	1019.2
110°	852.8	1118.4	1272.1	1241.0	1222.0



TEST NUMBER: 26354

CATALOG NUMBER: I2-WD-3T5-1C-UNV-04

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	990.2	1237.0	1461.6	1450.2	1435.1
115°	1128.3	1353.4	1636.7	1655.3	1644.7
117.5°	1266.5	1468.7	1784.5	1851.6	1846.4
120°	1401.1	1584.1	1908.4	2022.8	2034.0
122.5°	1532.6	1699.2	2011.9	2177.7	2200.4
125°	1660.6	1815.3	2109.4	2301.7	2343.8
127.5°	1785.7	1931.4	2197.7	2402.1	2462.3
130°	1907.3	2042.5	2278.8	2480.0	2545.1
132.5°	2023.5	2148.0	2359.9	2555.3	2617.2
135°	2138.0	2250.7	2437.5	2617.5	2682.4
137.5°	2247.3	2339.5	2507.4	2669.5	2739.7
140°	2350.5	2425.3	2577.6	2714.9	2781.5
142.5°	2448.0	2511.1	2648.9	2757.5	2801.3
145°	2540.4	2596.4	2723.4	2813.9	2857.4
147.5°	2628.3	2674.2	2799.8	2869.9	2902.4
150°	2710.3	2742.7	2860.3	2924.7	2950.0
152.5°	2787.0	2807.8	2915.1	2969.3	2993.9
155°	2855.7	2866.9	2959.4	3008.5	3034.0
157.5°	2916.6	2917.3	2992.7	3039.9	3064.9
160°	2972.6	2961.3	3022.9	3067.6	3090.0
162.5°	3021.9	3002.1	3049.3	3083.3	3103.9
165°	3064.6	3040.5	3071.4	3092.6	3110.9
167.5°	3102.4	3073.8	3094.6	3100.4	3118.0
170°	3135.9	3101.6	3109.0	3108.1	3123.3
172.5°	3161.4	3125.3	3125.1	3117.9	3129.3
175°	3179.6	3141.0	3136.3	3124.4	3128.9
177.5°	3190.6	3149.6	3142.6	3126.4	3131.7
180°	3149.4	3149.4	3149.4	3149.4	3149.4

(END OF REPORT)