

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: 26361

Luminaire Tested: **I2-WF-1T5-1C-UNV-04**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 26361
Test Lab: LIGHTING SCIENCES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: I2-WF-1T5-1C-UNV-04
Description: WITH WHITE INTERIOR AND 30 CELL WHITE PERF BAFFLE

Light Source: ONE PHILIPS 54 WATT T5 LAMP
F54T5/835HO. LUMEN RATING = 4500 LMS.

Ballast/Driver: -

Summary

Lumens per Lamp: 4500 (1 lamp)
Luminaire Lumens: 4289.2 lumens
Efficiency: 95.3%
Efficacy: 72.7 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.68 / 1.39
Luminous Opening: Rectangular (W 0.31' x L: 3.67' x H: 0')
CIE Type: Semi-Indirect

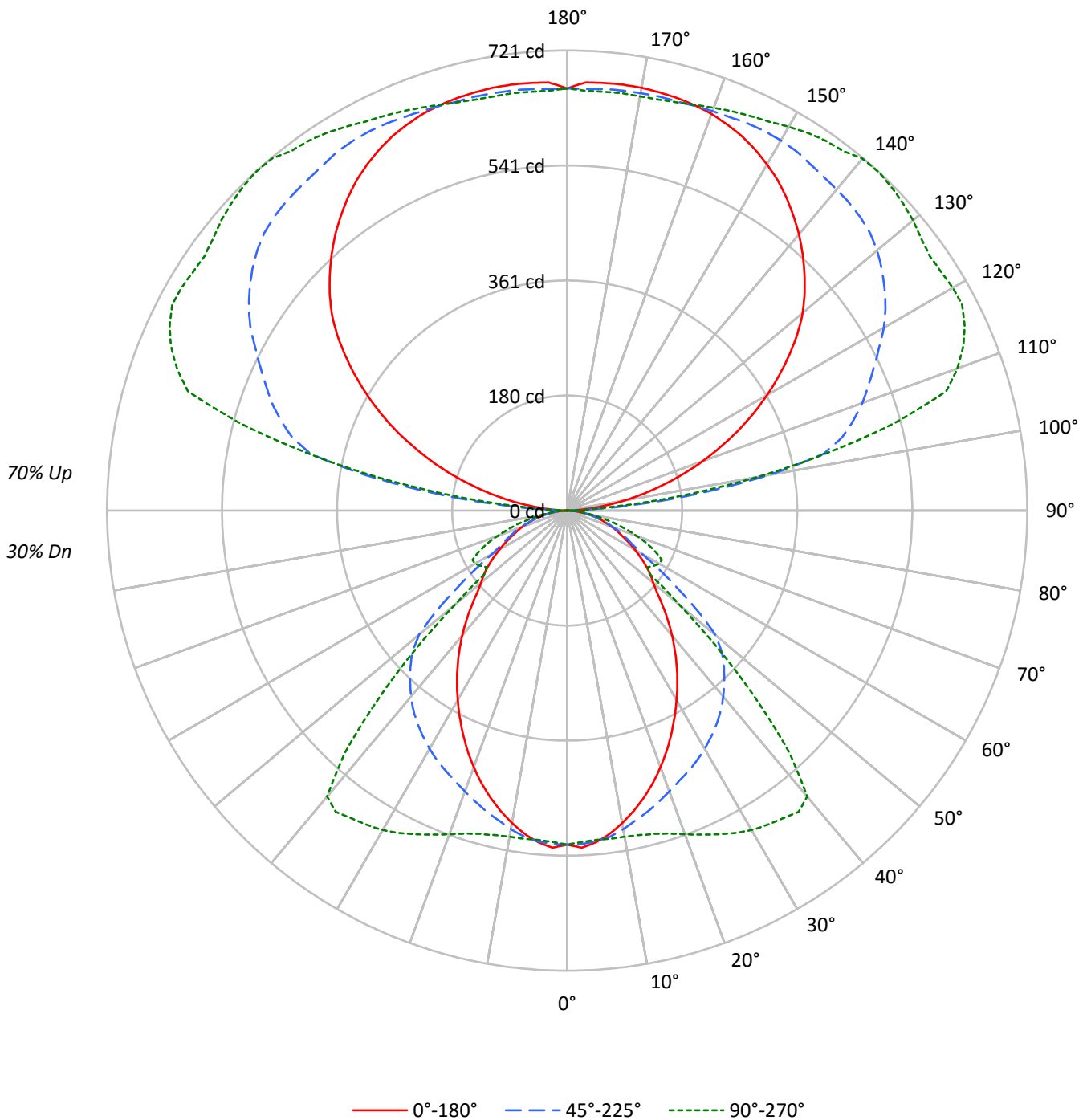
Input Watts (W): 59
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	98	98	98	98	87	87	87	87	69	69	69	51	51	51	36	36	36	28
1	89	85	82	79	80	77	74	71	60	58	57	46	44	43	32	31	30	24
2	81	75	69	64	73	67	62	59	53	50	47	40	38	36	28	27	26	21
3	74	66	59	54	66	59	54	49	47	43	40	36	33	31	25	24	22	18
4	68	58	51	46	61	53	46	42	42	37	34	32	29	27	23	21	19	15
5	62	52	44	39	56	47	40	36	37	33	29	29	26	23	20	19	17	14
6	57	46	39	34	51	42	36	31	34	29	26	26	23	20	19	17	15	12
7	53	42	35	29	47	38	32	27	30	26	22	24	20	18	17	15	13	11
8	49	38	31	26	44	34	28	24	28	23	20	21	18	16	16	14	12	10
9	46	34	28	23	41	31	25	21	25	21	18	20	17	14	14	12	11	9
10	42	31	25	20	38	29	23	19	23	19	16	18	15	13	13	11	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4951	4951	4951
5°	4954	4941	4919
10°	4776	4870	4985
15°	4558	4781	5137
20°	4306	4716	5433
25°	4030	4697	5842
30°	3746	4711	6315
35°	3458	4716	6801
40°	3159	4699	7225
45°	2841	4647	5634
50°	2585	4457	3374
55°	2487	3451	2550
60°	2318	2543	3156
65°	2158	2292	3425
70°	2072	2144	3209
75°	1985	1959	2811
80°	1863	1760	2261
85°	1498	1737	1769



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	49.3	1.1	1.1
10°-20°	138.9	3.2	3.1
20°-30°	212.9	5.0	4.7
30°-40°	265.5	6.2	5.9
40°-50°	253.4	5.9	5.6
50°-60°	158.5	3.7	3.5
60°-70°	112.4	2.6	2.5
70°-80°	61.9	1.4	1.4
80°-90°	18.3	0.4	0.4
90°-100°	117.3	2.7	2.6
100°-110°	407.8	9.5	9.1
110°-120°	508.2	11.8	11.3
120°-130°	522.5	12.2	11.6
130°-140°	490.7	11.4	10.9
140°-150°	412.3	9.6	9.2
150°-160°	307.8	7.2	6.8
160°-170°	188.3	4.4	4.2
170°-180°	63.3	1.5	1.4
0°-30°	401.1	9.4	8.9
0°-40°	666.6	15.5	14.8
0°-60°	1078.5	25.1	24.0
0°-90°	1271.1	29.6	28.2
90°-120°	1033.3	24.1	23.0
90°-150°	2458.7	57.3	54.6
90°-180°	3018.0	70.4	67.1
0°-180°	4289.2	100.0	95.3

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	523	523	523	523	523	
5°	522	518	520	522	518	49
15°	465	470	488	515	524	131
25°	386	400	450	523	560	177
35°	299	321	408	522	589	187
45°	212	242	347	429	421	164
55°	151	160	209	157	155	134
65°	96	104	102	129	153	96
75°	54	51	54	63	77	57
85°	14	14	16	17	16	16
90°	0	5	6	5	0	2
95°	34	119	109	90	82	40
105°	156	273	446	531	533	166
115°	295	390	530	647	687	291
125°	425	491	607	674	694	379
135°	526	564	650	708	718	406
145°	599	614	663	699	707	375
155°	647	648	669	681	682	299
165°	669	664	664	662	662	189
175°	672	665	663	659	659	64
180°	661	661	661	661	661	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	523.3	523.3	523.3	523.3	523.3
2.5°	528.7	523.6	523.0	523.1	519.8
5°	521.6	517.8	520.3	522.5	517.9
7.5°	511.0	509.7	515.2	520.3	518.6
10°	497.1	497.7	506.9	517.3	518.9
12.5°	481.9	484.5	497.0	515.9	520.8
15°	465.3	470.0	488.1	515.0	524.5
17.5°	447.2	453.6	478.1	514.0	530.5
20°	427.7	436.0	468.4	516.3	539.6
22.5°	407.5	418.0	458.5	520.0	549.6
25°	386.0	399.8	449.9	522.7	559.6
27.5°	364.5	380.6	441.0	525.1	569.5
30°	342.9	360.5	431.2	526.4	578.0
32.5°	321.3	340.6	420.0	525.4	583.8
35°	299.4	321.1	408.3	522.3	588.8
37.5°	277.7	301.5	395.4	519.1	595.2
40°	255.8	282.0	380.5	515.5	585.0
42.5°	233.8	262.4	364.2	494.6	516.1
45°	212.3	242.0	347.3	428.8	421.1
47.5°	191.5	220.8	329.2	348.3	322.8
50°	175.6	198.8	302.8	266.7	229.2
52.5°	164.2	177.6	257.7	196.5	162.2
55°	150.8	160.1	209.2	157.0	154.6
57.5°	136.5	146.2	168.9	142.7	161.0
60°	122.5	131.9	134.4	141.1	166.8
62.5°	109.6	118.5	115.2	138.0	167.1
65°	96.4	103.7	102.4	128.7	153.0
67.5°	85.2	88.4	89.8	111.8	135.6
70°	74.9	74.0	77.5	94.6	116.0
72.5°	63.7	61.7	65.3	78.2	95.6
75°	54.3	50.6	53.6	62.8	76.9
77.5°	44.4	40.2	42.6	49.1	57.5
80°	34.2	30.7	32.3	36.3	41.5
82.5°	23.9	21.6	23.4	25.5	27.9
85°	13.8	14.4	16.0	16.6	16.3
87.5°	5.0	8.3	10.2	9.6	6.2
90°	0.0	5.3	5.8	4.9	0.2
92.5°	9.9	36.4	25.7	22.4	19.0
95°	34.2	118.7	109.3	89.6	82.0
97.5°	60.8	190.2	212.3	196.1	182.9
100°	91.6	219.5	320.6	308.1	301.9
102.5°	123.6	246.2	411.8	426.0	418.4
105°	155.8	272.7	446.5	531.4	532.9
107.5°	191.2	303.6	470.6	588.3	623.0
110°	225.7	332.8	492.0	611.3	650.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	259.6	361.2	510.8	629.9	671.8
115°	295.1	389.6	530.3	646.9	687.2
117.5°	328.8	416.5	550.7	654.4	697.6
120°	361.5	442.5	573.0	660.0	698.0
122.5°	393.6	467.4	591.4	665.0	695.3
125°	424.8	490.9	607.3	673.8	694.0
127.5°	454.9	513.2	621.6	685.5	699.4
130°	481.7	532.3	634.0	694.7	707.4
132.5°	504.7	549.0	643.8	702.5	713.4
135°	525.9	564.2	649.9	707.5	717.7
137.5°	546.0	575.6	654.1	709.4	720.9
140°	565.0	587.3	656.9	707.5	719.9
142.5°	582.5	600.5	659.4	701.2	710.1
145°	598.8	613.7	663.2	699.4	707.1
147.5°	613.7	624.5	667.9	695.0	701.4
150°	626.4	633.5	669.6	690.1	694.3
152.5°	637.8	641.5	670.1	684.9	686.8
155°	647.4	648.4	669.2	681.0	681.7
157.5°	654.8	653.5	667.1	675.6	676.9
160°	661.3	657.7	666.1	671.1	671.6
162.5°	665.8	661.3	664.8	666.2	666.3
165°	668.9	663.8	663.7	661.9	662.4
167.5°	671.1	664.7	664.5	659.1	659.7
170°	672.7	665.7	664.1	657.9	658.9
172.5°	673.0	666.1	663.9	658.7	659.6
175°	672.4	664.8	662.8	658.8	658.7
177.5°	671.5	663.3	661.4	657.3	658.4
180°	661.4	661.4	661.4	661.4	661.4

(END OF REPORT)