

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: 26351

Luminaire Tested: **I2-WD-1T8-1C-UNV-04**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 26351  
Test Lab: LIGHTING SCIENCES, INC.  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: I2-WD-1T8-1C-UNV-04  
Description: WITH WHITE INTERIOR AND WHITE PLASTIC LENS OVER WHITE PERF

Light Source: ONE SYLVANIA 32 WATT T8 LAMP  
FO32/835/ECO. LUMEN RATING = 2950 LMS.

Ballast/Driver: -

**Summary**

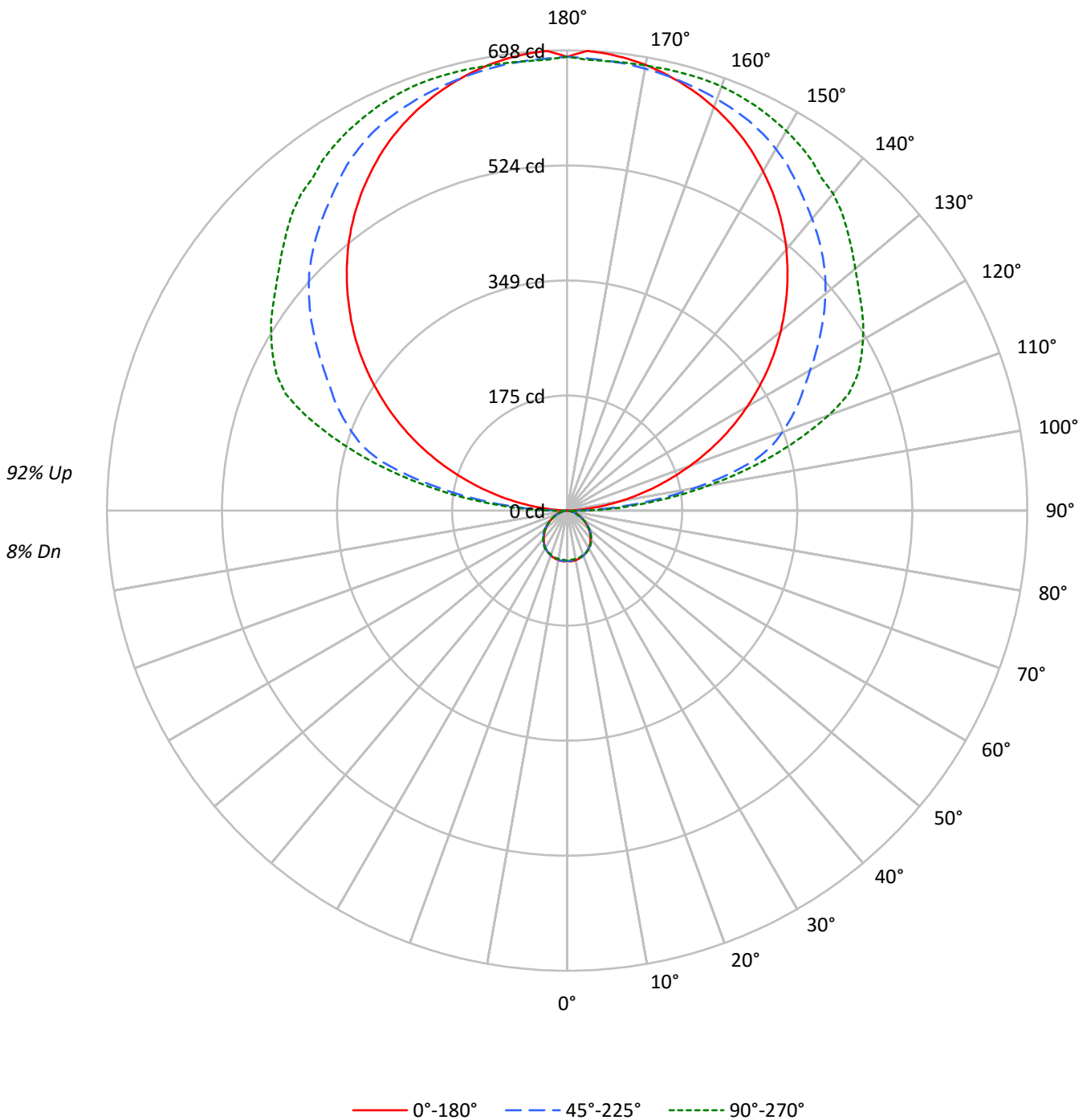
Lumens per Lamp: 2950 (1 lamp)  
Luminaire Lumens: 2722.2 lumens  
Efficiency: 92.3%  
Efficacy: 80.1 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.38  
Luminous Opening: Rectangular (W 0.31' x L: 3.67' x H: 0')  
CIE Type: Indirect

Input Watts (W): 34  
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	90	90	90	90	78	78	78	78	55	55	55		35	35	35		16	16	16	7
1	81	78	74	71	70	67	65	62	48	46	45		30	29	29		14	14	13	6
2	74	68	63	58	64	59	55	51	42	39	37		27	25	24		12	12	11	5
3	68	60	53	48	58	52	47	42	37	34	31		23	22	20		11	10	10	4
4	62	52	46	41	53	46	40	36	33	29	26		21	19	17		10	9	8	4
5	56	46	40	34	49	40	35	30	29	25	22		19	16	15		9	8	7	3
6	52	41	34	30	45	36	30	26	26	22	19		17	14	13		8	7	6	3
7	48	37	30	26	41	32	27	23	23	20	17		15	13	11		7	6	5	2
8	44	33	27	22	38	29	24	20	21	17	15		14	11	10		6	5	5	2
9	41	30	24	20	35	26	21	17	19	16	13		12	10	9		6	5	4	2
10	38	28	21	17	33	24	19	15	18	14	11		11	9	8		5	4	4	2

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

	0°	45°	90°
0°	719	719	719
5°	733	726	710
10°	733	727	715
15°	732	730	720
20°	732	731	716
25°	727	722	726
30°	718	716	729
35°	702	711	718
40°	682	702	702
45°	654	681	676
50°	626	651	637
55°	589	609	592
60°	543	554	537
65°	506	490	479
70°	476	412	407
75°	483	351	347
80°	458	311	278
85°	337	315	250



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	7.3	0.3	0.2
10°-20°	21.0	0.8	0.7
20°-30°	32.0	1.2	1.1
30°-40°	38.5	1.4	1.3
40°-50°	38.6	1.4	1.3
50°-60°	32.4	1.2	1.1
60°-70°	21.7	0.8	0.7
70°-80°	10.8	0.4	0.4
80°-90°	5.2	0.2	0.2
90°-100°	99.3	3.6	3.4
100°-110°	272.1	10.0	9.2
110°-120°	375.9	13.8	12.7
120°-130°	415.2	15.3	14.1
130°-140°	417.9	15.4	14.2
140°-150°	378.1	13.9	12.8
150°-160°	300.0	11.0	10.2
160°-170°	190.9	7.0	6.5
170°-180°	65.4	2.4	2.2
0°-30°	60.3	2.2	2.0
0°-40°	98.8	3.6	3.3
0°-60°	169.8	6.2	5.8
0°-90°	207.5	7.6	7.0
90°-120°	747.3	27.5	25.3
90°-150°	1958.5	71.9	66.4
90°-180°	2515.0	92.4	85.3
0°-180°	2722.2	100.0	92.3

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	76	76	76	76	76	
5°	77	76	76	76	75	7
15°	75	74	74	75	74	21
25°	70	69	69	70	70	32
35°	61	61	62	63	62	38
45°	49	49	51	51	50	38
55°	36	36	37	36	36	32
65°	23	22	22	22	21	22
75°	13	10	10	10	10	14
85°	3	3	3	2	2	4
90°	0	6	15	23	26	1
95°	30	78	97	107	112	35
105°	139	199	294	317	324	147
115°	258	306	388	459	486	255
125°	371	407	470	519	545	331
135°	472	498	548	585	601	364
145°	558	571	607	634	648	349
155°	626	629	652	668	677	288
165°	671	667	673	681	686	190
175°	696	688	685	683	684	66
180°	688	688	688	688	688	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	76.0	76.0	76.0	76.0	76.0
2.5°	77.2	76.5	76.7	76.7	75.2
5°	77.2	76.4	76.4	76.4	74.8
7.5°	76.9	76.5	76.4	76.4	74.8
10°	76.3	75.7	75.7	75.8	74.4
12.5°	75.5	75.0	75.1	75.4	74.2
15°	74.7	74.3	74.5	74.7	73.5
17.5°	73.8	73.4	73.6	73.6	72.4
20°	72.7	72.2	72.6	72.4	71.1
22.5°	71.2	70.9	71.0	71.2	70.2
25°	69.6	69.4	69.2	69.9	69.5
27.5°	67.7	67.6	67.4	68.9	68.3
30°	65.7	65.4	65.5	67.4	66.7
32.5°	63.4	63.2	63.6	65.2	64.6
35°	60.8	60.9	61.6	62.8	62.2
37.5°	58.1	57.9	59.3	60.0	59.7
40°	55.2	55.1	56.8	57.4	56.8
42.5°	52.1	52.1	53.9	54.4	53.8
45°	48.9	49.0	50.9	51.2	50.5
47.5°	45.8	45.6	47.6	47.6	47.1
50°	42.5	42.5	44.2	43.9	43.3
52.5°	39.2	39.2	40.6	40.2	39.6
55°	35.7	35.8	36.9	36.3	35.9
57.5°	32.3	32.6	33.2	32.4	32.0
60°	28.7	29.0	29.3	28.9	28.4
62.5°	25.5	25.4	25.5	25.3	24.9
65°	22.6	21.9	21.9	21.6	21.4
67.5°	19.6	18.5	18.3	18.2	18.0
70°	17.2	15.2	14.9	15.1	14.7
72.5°	15.2	12.2	12.1	12.4	12.0
75°	13.2	9.7	9.6	9.9	9.5
77.5°	11.0	7.3	7.6	7.3	7.1
80°	8.4	5.3	5.7	5.4	5.1
82.5°	5.6	4.1	4.1	3.6	3.3
85°	3.1	3.1	2.9	2.4	2.3
87.5°	1.3	2.4	2.2	2.0	2.5
90°	0.0	5.7	15.3	22.9	26.5
92.5°	8.4	33.9	51.0	61.2	67.2
95°	29.5	77.7	96.7	107.2	112.1
97.5°	54.2	124.4	145.7	158.7	164.3
100°	81.2	155.0	196.5	211.9	216.9
102.5°	109.6	177.6	247.0	264.8	271.4
105°	138.7	199.3	294.2	316.9	324.0
107.5°	168.3	223.6	325.5	365.8	374.8
110°	198.3	251.0	347.4	410.6	422.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	228.2	278.5	367.9	438.9	462.2
115°	258.1	306.2	387.6	458.8	485.9
117.5°	287.2	332.4	405.5	475.0	502.8
120°	315.5	357.9	425.7	491.3	518.1
122.5°	343.3	382.8	447.7	506.0	532.4
125°	370.7	407.4	469.5	519.2	544.7
127.5°	397.4	431.6	491.0	535.3	556.7
130°	422.9	454.8	511.4	551.8	570.6
132.5°	447.5	476.8	530.9	569.0	585.7
135°	471.6	497.8	547.8	585.0	600.9
137.5°	494.9	516.0	563.5	599.4	615.7
140°	517.4	534.2	577.9	612.2	627.6
142.5°	538.4	552.6	592.0	621.9	634.7
145°	558.3	571.0	606.7	634.2	647.6
147.5°	577.0	587.8	621.7	645.0	657.1
150°	594.3	602.7	633.5	654.5	664.9
152.5°	611.0	616.3	643.9	661.6	671.5
155°	625.9	628.6	652.2	668.1	677.1
157.5°	639.2	639.7	658.6	673.0	681.4
160°	651.3	649.4	664.4	677.1	684.7
162.5°	661.8	658.6	669.2	679.4	686.1
165°	671.2	666.9	673.2	680.6	686.3
167.5°	679.4	673.9	677.4	680.7	686.1
170°	686.5	679.5	680.7	680.5	685.4
172.5°	691.7	684.1	683.6	681.9	685.2
175°	695.6	687.6	685.2	683.2	684.4
177.5°	697.9	689.5	686.4	682.8	684.4
180°	688.4	688.4	688.4	688.4	688.4

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