

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: 26344

Luminaire Tested: **I2-WB-2T8-1C-UNV-04**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 26344  
Test Lab: LIGHTING SCIENCES, INC.  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: I2-WB-2T8-1C-UNV-04  
Description: WITH WHITE INTERIOR AND 28 CELL SEMI-SPECULAR PARABOLIC LOUVER

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

Ballast/Driver: -

**Summary**

Lumens per Lamp: 2950 (2 lamps)  
Luminaire Lumens: 5367.9 lumens  
Efficiency: 91.0%  
Efficacy: 94.2 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.24  
Luminous Opening: Rectangular (W 0.31' x L: 3.67' x H: 0')  
CIE Type: Semi-Indirect

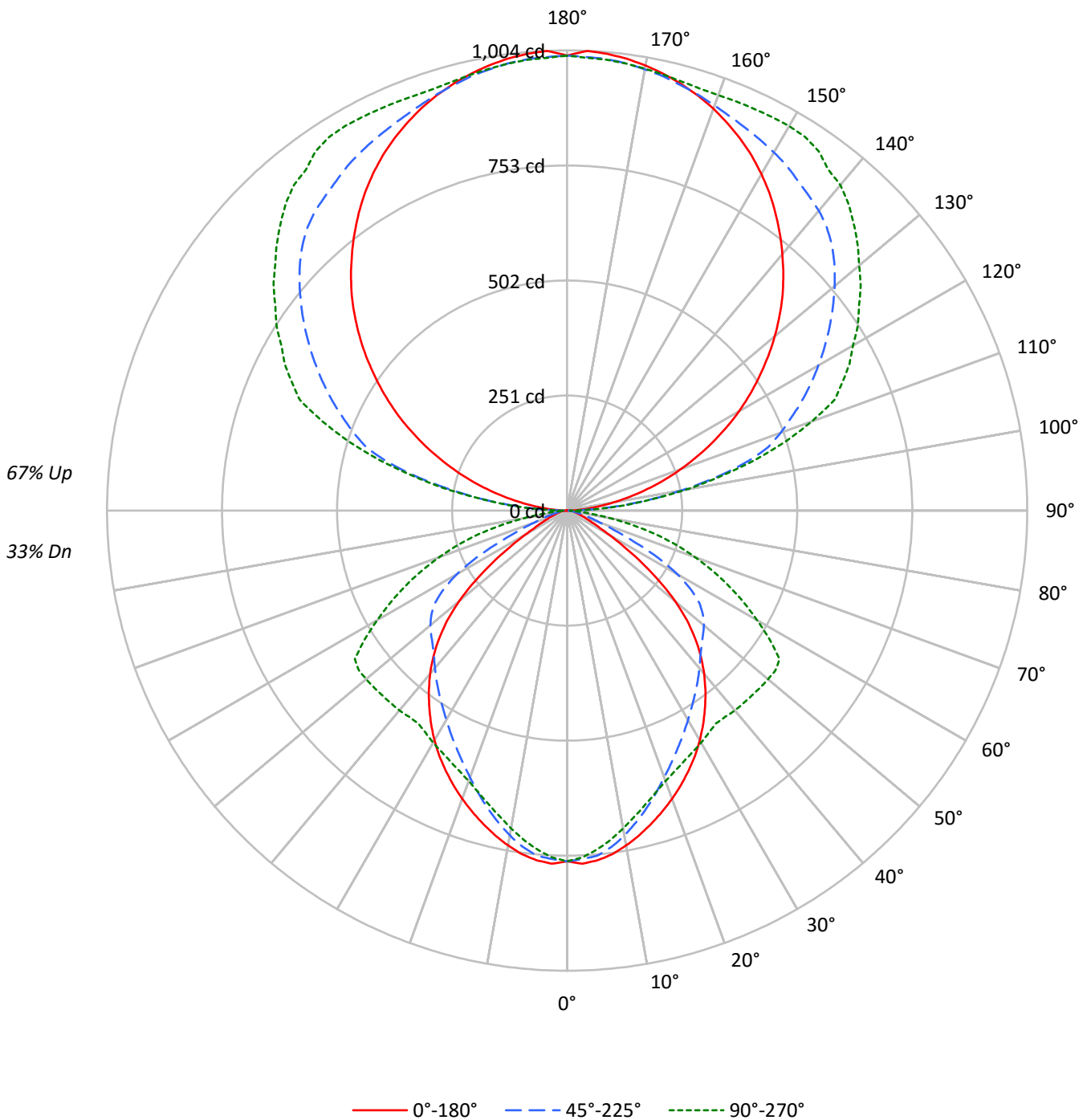
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	94	94	94	94	85	85	85	85	67	67	67	52	52	52	37	37	37	30
1	86	82	79	76	77	74	71	69	59	57	56	46	44	43	33	32	32	26
2	78	72	66	62	70	65	60	57	52	49	46	40	38	36	29	28	27	22
3	71	63	57	52	64	57	52	47	46	42	39	36	33	31	26	24	23	19
4	65	56	49	44	59	51	45	40	41	37	33	32	29	26	23	21	20	16
5	60	50	42	37	54	45	39	34	36	32	28	28	25	23	21	19	17	14
6	55	44	37	32	49	40	34	30	33	28	25	26	22	20	19	17	15	12
7	51	40	33	28	46	36	30	26	30	25	22	23	20	18	17	15	13	11
8	47	36	29	25	42	33	27	23	27	22	19	21	18	16	16	14	12	10
9	44	33	26	22	39	30	24	20	25	20	17	19	16	14	15	12	11	9
10	41	30	24	20	37	28	22	18	23	18	15	18	15	13	14	11	10	8

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

	0°	45°	90°
0°	7241	7241	7241
5°	7271	7179	7052
10°	7127	6914	6763
15°	6934	6577	6492
20°	6738	6237	6321
25°	6540	5965	6300
30°	6322	5762	6388
35°	6058	5625	6545
40°	5747	5545	7031
45°	5289	5549	7632
50°	4533	5732	8424
55°	3292	5814	9326
60°	1998	5277	9054
65°	1278	3640	8717
70°	965	2111	8213
75°	830	1418	7318
80°	866	1035	5143
85°	1172	814	2736



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	71.0	1.3	1.2
10°-20°	191.1	3.6	3.2
20°-30°	273.0	5.1	4.6
30°-40°	320.9	6.0	5.4
40°-50°	341.5	6.4	5.8
50°-60°	313.2	5.8	5.3
60°-70°	189.9	3.5	3.2
70°-80°	73.4	1.4	1.2
80°-90°	14.2	0.3	0.2
90°-100°	116.6	2.2	2.0
100°-110°	372.5	6.9	6.3
110°-120°	536.3	10.0	9.1
120°-130°	604.3	11.3	10.2
130°-140°	609.8	11.4	10.3
140°-150°	546.9	10.2	9.3
150°-160°	427.2	8.0	7.2
160°-170°	272.0	5.1	4.6
170°-180°	94.1	1.8	1.6
0°-30°	535.1	10.0	9.1
0°-40°	856.0	15.9	14.5
0°-60°	1510.7	28.1	25.6
0°-90°	1788.1	33.3	30.3
90°-120°	1025.4	19.1	17.4
90°-150°	2786.5	51.9	47.2
90°-180°	3580.0	66.7	60.7
0°-180°	5367.9	100.0	91.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	765	765	765	765	765	
5°	766	759	756	751	742	72
15°	708	691	672	668	663	199
25°	626	592	571	589	604	288
35°	524	480	487	531	567	328
45°	395	366	415	505	570	302
55°	200	223	352	470	565	180
65°	57	70	163	300	389	61
75°	23	28	39	88	200	25
85°	11	8	8	8	25	9
90°	0	3	6	8	10	3
95°	41	102	110	115	118	46
105°	181	306	402	420	421	192
115°	348	460	565	642	663	344
125°	513	598	699	758	777	459
135°	664	704	817	868	884	512
145°	793	803	878	940	957	496
155°	894	894	921	953	967	412
165°	963	956	960	965	969	272
175°	1000	990	989	986	987	95
180°	993	993	993	993	993	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	765.3	765.3	765.3	765.3	765.3
2.5°	771.2	764.7	761.1	761.8	757.3
5°	765.6	759.0	755.9	751.1	742.5
7.5°	756.2	750.2	740.4	732.5	724.8
10°	741.9	735.0	719.7	711.4	704.0
12.5°	725.5	714.4	696.3	690.1	682.9
15°	707.9	691.4	671.5	667.5	662.8
17.5°	689.0	667.7	645.6	644.2	644.4
20°	669.2	642.9	619.5	623.8	627.8
22.5°	648.5	617.7	594.9	606.1	614.9
25°	626.5	592.0	571.4	589.4	603.5
27.5°	603.5	565.5	548.9	574.2	593.3
30°	578.7	537.5	527.4	559.8	584.7
32.5°	552.3	508.8	506.5	546.0	574.8
35°	524.5	480.3	487.0	530.8	566.7
37.5°	495.6	452.0	467.9	520.5	567.0
40°	465.3	424.5	449.0	515.6	569.3
42.5°	432.1	395.8	430.1	510.7	569.7
45°	395.3	366.1	414.7	504.8	570.4
47.5°	354.5	335.0	402.2	498.8	571.6
50°	308.0	301.4	389.4	492.6	572.3
52.5°	254.7	264.3	373.7	484.7	572.9
55°	199.6	223.2	352.5	470.3	565.4
57.5°	148.0	176.9	320.0	445.2	524.3
60°	105.6	131.4	278.9	399.6	478.5
62.5°	75.9	95.3	224.0	351.5	434.4
65°	57.1	70.1	162.6	300.5	389.4
67.5°	44.2	52.9	110.8	247.6	344.0
70°	34.9	41.3	76.3	192.0	296.9
72.5°	27.8	34.0	54.0	136.6	250.0
75°	22.7	28.1	38.8	88.3	200.2
77.5°	18.6	22.7	27.5	53.0	146.2
80°	15.9	17.8	19.0	31.1	94.4
82.5°	13.6	12.8	12.4	17.7	54.8
85°	10.8	8.3	7.5	8.5	25.2
87.5°	4.8	4.7	3.5	2.6	6.1
90°	0.0	3.1	6.1	8.5	9.5
92.5°	16.1	41.1	49.5	52.2	53.1
95°	40.8	101.6	110.0	115.3	117.5
97.5°	69.1	166.3	180.2	183.7	183.4
100°	102.8	227.4	254.1	262.9	262.9
102.5°	140.5	266.5	329.9	337.1	339.6
105°	180.9	306.2	402.1	419.7	421.1
107.5°	221.9	344.0	460.2	487.9	497.9
110°	263.5	383.8	495.4	562.5	567.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	305.4	420.8	529.1	608.7	631.3
115°	348.1	460.1	564.7	641.6	663.0
117.5°	390.8	498.0	598.9	669.9	694.6
120°	432.9	535.2	633.0	700.9	719.9
122.5°	473.4	569.0	666.5	730.8	752.1
125°	513.1	597.8	699.1	758.3	777.2
127.5°	552.6	624.8	731.1	788.5	807.5
130°	591.2	651.7	761.8	814.8	831.8
132.5°	628.7	678.1	791.3	844.4	859.5
135°	664.5	703.6	817.3	868.2	884.5
137.5°	698.2	726.2	838.5	891.2	908.6
140°	730.5	749.5	854.3	908.1	927.3
142.5°	762.3	775.9	865.9	923.8	936.6
145°	792.6	803.4	878.1	940.2	957.0
147.5°	821.3	828.6	891.9	948.1	966.5
150°	847.7	852.2	902.3	951.5	968.7
152.5°	872.5	873.8	912.0	952.2	968.1
155°	894.5	893.7	921.0	953.1	967.0
157.5°	914.4	911.3	930.2	953.9	965.9
160°	933.1	927.8	940.2	956.1	964.6
162.5°	949.3	942.4	951.1	959.7	965.2
165°	963.4	955.9	960.5	964.6	968.6
167.5°	975.5	967.2	970.2	969.6	974.0
170°	985.9	977.1	977.6	975.6	979.0
172.5°	994.3	984.8	984.1	981.2	983.8
175°	1000.2	989.6	988.8	986.1	987.4
177.5°	1003.8	991.8	990.5	986.6	988.5
180°	992.7	992.7	992.7	992.7	992.7

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