

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: 20511

Luminaire Tested: **IQ-WB-2T8**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 20511  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: IQ-WB-2T8  
Description: DIRECT/INDIRECT SUSPENDED LUMINAIRE WITH WHITE INTERIOR WITH 36 CELL  
WHITE PERF LOUVER  
Light Source: TWO PHILIPS 32 WATT T8 LAMPS  
  
F32T8/TL841. LUMEN RATING = 3000 LMS.  
  
Ballast/Driver: -

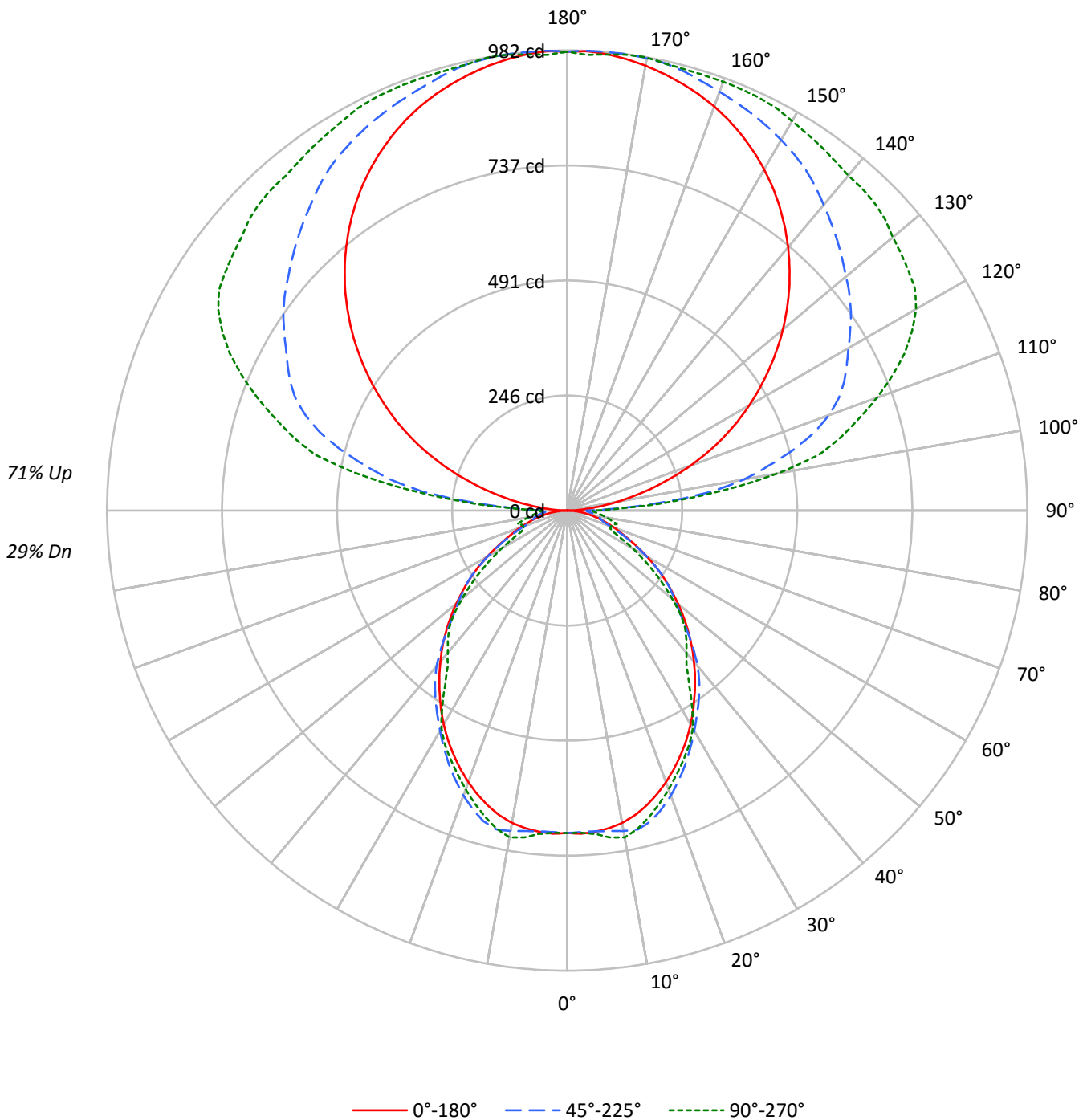
**Summary**

Lumens per Lamp: 3000 (2 lamps)  
Luminaire Lumens: 5509.4 lumens  
Efficiency: 91.8%  
Efficacy: 91.8 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.16 / 1.25  
Luminous Opening: Rectangular w/ Sides (W: 0.32' x L: 3.67' x H: 0.06')  
CIE Type: Semi-Indirect  
  
Input Watts (W): 60  
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



TEST NUMBER: 20511  
CATALOG NUMBER: IQ-WB-2T8

### Luminous Intensity Polar Plot





TEST NUMBER: 20511  
 CATALOG NUMBER: IQ-WB-2T8

**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	84	84	84	84	66	66	66	49	49	49	34	34	34	27
1	86	82	78	75	77	73	70	68	58	56	54	43	42	41	30	29	29	23
2	78	71	66	62	70	64	60	56	51	48	45	38	36	34	27	25	24	19
3	71	63	57	51	64	57	51	47	45	41	38	34	31	29	24	22	21	17
4	65	56	49	44	58	50	44	40	40	36	32	30	27	25	21	20	18	14
5	60	50	43	37	53	45	39	34	36	31	28	27	24	22	19	17	16	13
6	55	44	37	32	49	40	34	30	32	28	24	25	22	19	18	16	14	11
7	51	40	33	28	45	36	30	26	29	25	21	22	19	17	16	14	13	10
8	47	36	30	25	42	33	27	23	27	22	19	20	17	15	15	13	11	9
9	44	33	26	22	39	30	24	20	24	20	17	19	16	14	14	12	10	8
10	41	30	24	20	37	28	22	18	22	18	15	17	14	12	13	11	9	7

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

	0°	45°	90°
0°	6305	6305	6305
5°	6319	6240	6269
10°	6280	6302	6379
15°	6160	6275	6114
20°	5979	5995	5780
25°	5764	5656	5459
30°	5522	5299	5122
35°	5252	4979	4488
40°	4971	4628	4096
45°	4665	4097	3889
50°	4322	3687	3410
55°	3946	3366	2831
60°	3521	2868	2222
65°	3032	2347	1688
70°	2742	1877	1762
75°	2497	1732	2283
80°	2251	1946	2159
85°	1834	1998	2185



TEST NUMBER: 20511  
 CATALOG NUMBER: IQ-WB-2T8

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	65.9	1.2	1.1
10°-20°	189.3	3.4	3.2
20°-30°	272.8	5.0	4.5
30°-40°	300.9	5.5	5.0
40°-50°	280.9	5.1	4.7
50°-60°	222.5	4.0	3.7
60°-70°	139.5	2.5	2.3
70°-80°	88.9	1.6	1.5
80°-90°	52.0	0.9	0.9
90°-100°	198.8	3.6	3.3
100°-110°	475.5	8.6	7.9
110°-120°	608.0	11.0	10.1
120°-130°	647.3	11.7	10.8
130°-140°	623.1	11.3	10.4
140°-150°	548.7	10.0	9.1
150°-160°	429.5	7.8	7.2
160°-170°	272.4	4.9	4.5
170°-180°	93.3	1.7	1.6
0°-30°	528.0	9.6	8.8
0°-40°	829.0	15.0	13.8
0°-60°	1332.3	24.2	22.2
0°-90°	1612.7	29.3	26.9
90°-120°	1282.3	23.3	21.4
90°-150°	3101.5	56.3	51.7
90°-180°	3897.0	70.7	65.0
0°-180°	5509.4	100.0	91.8

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	688	688	688	688	688	
5°	688	684	687	692	693	65
15°	652	662	687	682	677	183
25°	574	604	597	592	587	264
35°	475	496	490	475	454	297
45°	366	380	362	355	356	282
55°	253	271	254	234	225	226
65°	145	164	142	118	109	146
75°	75	78	75	95	110	80
85°	21	32	50	62	65	22
90°	0	22	41	53	55	3
95°	42	151	207	225	226	48
105°	191	340	499	573	604	203
115°	367	469	652	764	794	362
125°	526	599	739	846	890	470
135°	670	719	815	894	928	517
145°	791	818	888	928	947	495
155°	883	901	934	959	972	407
165°	944	951	969	972	974	267
175°	978	975	982	978	977	93
180°	979	979	979	979	979	



TEST NUMBER: 20511  
 CATALOG NUMBER: IQ-WB-2T8

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	687.9	687.9	687.9	687.9	687.9
2.5°	690.2	685.2	686.7	688.3	688.1
5°	687.8	684.2	686.8	692.5	692.6
7.5°	683.7	681.2	689.6	701.0	703.5
10°	676.7	676.6	694.3	708.5	708.1
12.5°	666.2	670.8	696.8	699.2	695.3
15°	652.0	662.4	686.9	682.4	676.7
17.5°	635.4	651.9	668.7	661.3	655.5
20°	616.6	639.5	646.9	638.9	633.0
22.5°	596.1	624.2	622.6	615.9	609.9
25°	574.3	604.3	596.9	592.0	587.0
27.5°	551.3	579.6	569.8	568.3	564.0
30°	526.7	553.2	542.4	543.8	536.4
32.5°	501.1	525.2	515.9	512.4	496.8
35°	474.8	496.3	489.9	475.1	453.8
37.5°	448.2	467.1	463.7	435.6	418.5
40°	421.2	438.0	433.6	400.1	396.2
42.5°	393.9	408.9	397.7	376.9	376.7
45°	365.8	380.4	361.6	355.0	356.3
47.5°	337.4	351.6	328.2	332.1	328.5
50°	309.0	323.8	303.0	302.6	292.6
52.5°	280.7	296.9	279.0	267.6	258.3
55°	252.7	270.7	254.0	234.5	224.6
57.5°	225.0	243.8	225.4	201.8	191.6
60°	197.5	216.0	195.5	171.0	160.6
62.5°	170.5	189.2	167.4	143.4	132.7
65°	144.7	163.9	141.7	118.4	109.1
67.5°	123.9	139.9	118.3	99.0	99.0
70°	106.9	117.5	97.8	94.1	99.6
72.5°	90.5	96.5	81.9	93.7	101.0
75°	74.8	77.6	75.2	95.0	109.6
77.5°	60.0	61.0	71.2	91.9	96.0
80°	46.6	47.8	67.0	80.4	84.4
82.5°	33.6	38.4	58.3	70.8	74.7
85°	20.7	31.5	50.3	61.7	65.3
87.5°	7.3	24.7	42.7	53.2	56.6
90°	0.1	21.9	40.9	52.6	54.7
92.5°	16.1	79.0	105.6	120.6	121.4
95°	41.6	151.2	206.8	224.6	226.3
97.5°	73.3	211.2	311.5	337.5	340.9
100°	109.9	270.8	383.0	448.3	456.8
102.5°	149.3	309.8	439.6	523.5	550.3
105°	190.9	340.4	498.8	573.4	604.5
107.5°	234.8	369.8	552.2	627.9	652.9
110°	280.2	402.4	593.8	678.1	703.4



TEST NUMBER: 20511  
 CATALOG NUMBER: IQ-WB-2T8

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	323.8	435.3	627.6	724.2	750.6
115°	366.9	469.1	652.4	763.6	794.4
117.5°	408.7	501.7	672.7	796.3	829.8
120°	448.6	533.4	693.2	821.5	859.9
122.5°	487.8	565.5	716.4	834.3	880.1
125°	526.5	598.7	739.4	846.5	889.8
127.5°	564.3	631.1	759.4	858.4	899.0
130°	601.0	661.7	777.1	873.8	907.1
132.5°	636.3	690.8	795.9	885.9	920.3
135°	670.2	718.8	815.2	894.1	928.0
137.5°	702.6	745.2	833.5	899.6	932.0
140°	733.6	770.6	851.7	908.3	933.3
142.5°	763.1	795.4	870.7	918.4	939.6
145°	791.0	818.5	887.9	927.6	947.0
147.5°	816.8	840.8	901.4	936.7	953.3
150°	840.8	862.2	913.3	947.7	959.6
152.5°	862.9	882.2	924.2	955.5	968.1
155°	883.1	900.7	933.8	959.3	971.6
157.5°	901.4	916.7	942.7	962.7	972.9
160°	917.7	930.0	951.1	965.6	973.9
162.5°	931.8	941.3	959.6	968.3	973.7
165°	943.9	950.8	969.3	971.6	974.4
167.5°	954.5	958.7	976.6	976.6	976.3
170°	964.0	965.3	980.1	982.1	981.6
172.5°	971.8	971.1	981.9	981.4	981.3
175°	977.6	975.4	982.1	978.4	976.8
177.5°	981.1	978.6	982.3	975.9	973.5
180°	979.0	979.0	979.0	979.0	979.0

(END OF REPORT)