

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: 46638

Luminaire Tested: **AI-WN-2T8**

Issue Date: 3/3/2020

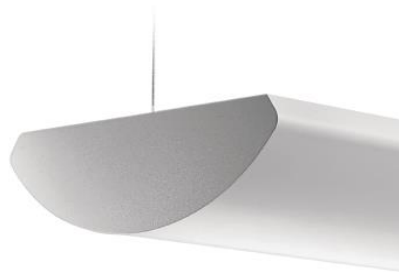
**Test Information**

Test Method: LM-41-14  
Report Number: 46638  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: AI-WN-2T8  
Description: FABRICATED METAL HOUSING WITH WHITE INTERIOR FINISH, WHITE PAINTED CENTER REFLECTOR STRIP WITH WHITE PAINTED METAL SIDE PIECES, OPEN TOP.  
Light Source: TWO 32-WATT F32T8/TL835 FLUORESCENTS.  
Ballast/Driver: MOTOROLA M2-RN-T8-1LL-120  
MOUNTING SUSPENDED  
PAINT REFL 87.2 %  
THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.  
TOTAL INPUT WATTS= 59.8 AT 120.0 VOLTS  
LUMEN TO CANDELA RATIO USED= 9.17

**Summary**

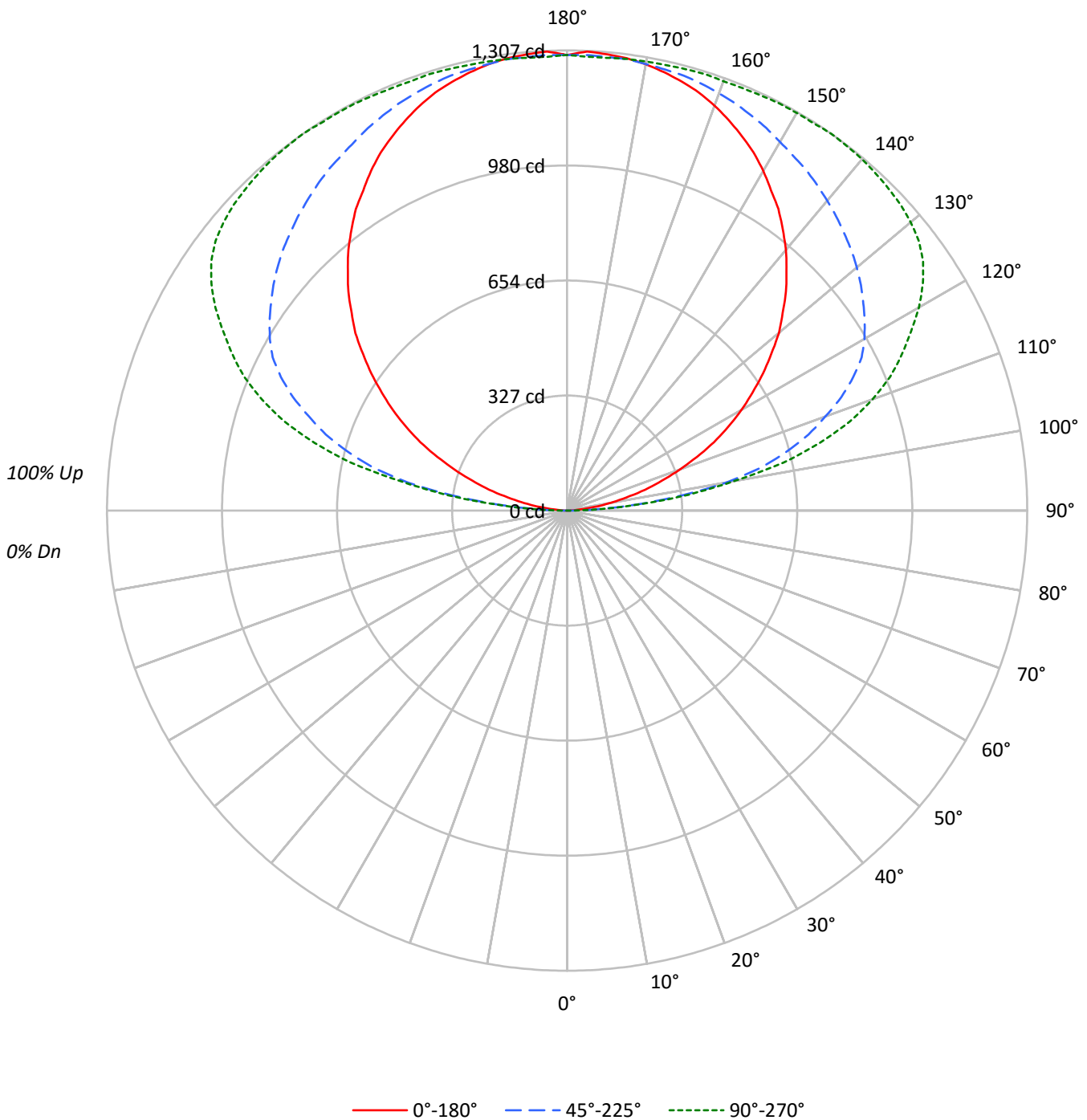
Lumens per Lamp: 3000 (2 lamps)  
Luminaire Lumens: 5198.2 lumens  
Efficiency: 86.6%  
Efficacy: 86.9 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.25')  
CIE Type: Indirect

Input Watts (W): 59.8  
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



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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	83	83	83	83	71	71	71	71	48	48	48	28	28	28	9	9	9	0
1	75	72	68	66	64	61	59	57	42	40	39	24	23	23	8	8	7	0
2	68	62	58	53	58	53	50	46	37	34	32	21	20	19	7	6	6	0
3	62	55	49	44	53	47	42	38	32	29	27	19	17	16	6	6	5	0
4	57	48	42	37	48	41	36	32	28	25	23	16	15	13	5	5	4	0
5	52	43	36	32	44	37	31	27	25	22	19	15	13	11	5	4	4	0
6	47	38	32	27	40	33	27	23	23	19	17	13	11	10	4	4	3	0
7	44	34	28	23	37	29	24	20	20	17	14	12	10	9	4	3	3	0
8	40	31	24	20	34	26	21	18	18	15	13	11	9	7	3	3	2	0
9	37	28	22	18	32	24	19	15	16	13	11	10	8	7	3	3	2	0
10	35	25	19	16	30	22	17	14	15	12	10	9	7	6	3	2	2	0

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

	0°	45°	90°
0°	0	0	0
5°	0	0	0
10°	0	0	0
15°	0	0	0
20°	0	0	0
25°	0	0	0
30°	0	0	0
35°	0	0	0
40°	0	0	0
45°	0	0	0
50°	0	0	0
55°	0	0	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	0.0	0.0	0.0
10°-20°	0.0	0.0	0.0
20°-30°	0.0	0.0	0.0
30°-40°	0.0	0.0	0.0
40°-50°	0.0	0.0	0.0
50°-60°	0.0	0.0	0.0
60°-70°	0.0	0.0	0.0
70°-80°	0.0	0.0	0.0
80°-90°	0.0	0.0	0.0
90°-100°	213.6	4.1	3.6
100°-110°	619.5	11.9	10.3
110°-120°	825.4	15.9	13.8
120°-130°	891.2	17.1	14.9
130°-140°	851.3	16.4	14.2
140°-150°	739.9	14.2	12.3
150°-160°	572.3	11.0	9.5
160°-170°	361.7	7.0	6.0
170°-180°	123.4	2.4	2.1
0°-30°	0.0	0.0	0.0
0°-40°	0.0	0.0	0.0
0°-60°	0.0	0.0	0.0
0°-90°	0.0	0.0	0.0
90°-120°	1658.5	31.9	27.6
90°-150°	4140.8	79.7	69.0
90°-180°	5198.0	100.0	86.6
0°-180°	5198.2	100.0	86.6

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	0	0	0	0	0	
5°	0	0	0	0	0	0
15°	0	0	0	0	0	0
25°	0	0	0	0	0	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	3
95°	39	198	196	238	208	50
105°	229	508	645	748	742	241
115°	460	673	897	1019	1049	453
125°	679	819	1027	1189	1234	607
135°	879	962	1113	1245	1292	677
145°	1046	1095	1182	1270	1307	653
155°	1174	1198	1238	1280	1301	541
165°	1261	1267	1279	1289	1298	356
175°	1301	1298	1293	1288	1291	124
180°	1294	1294	1294	1294	1294	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	0	0	0	0	0
90°	0	0	0	0	0
92.5°	11	95	83	114	87
95°	39	198	196	238	208
97.5°	77	304	329	373	349
100°	123	381	459	508	479
102.5°	172	449	564	645	630
105°	229	508	645	748	742
107.5°	283	552	719	830	842
110°	340	595	780	902	923
112.5°	399	634	843	966	993
115°	460	673	897	1019	1049
117.5°	516	709	943	1075	1101
120°	572	745	975	1122	1154
122.5°	624	780	1002	1158	1198
125°	679	819	1027	1189	1234
127.5°	731	856	1052	1207	1259
130°	785	891	1074	1221	1274
132.5°	830	927	1095	1234	1285
135°	879	962	1113	1245	1292
137.5°	922	997	1132	1253	1298
140°	967	1032	1149	1260	1303
142.5°	1006	1065	1166	1266	1305
145°	1046	1095	1182	1270	1307
147.5°	1078	1121	1195	1273	1304
150°	1114	1150	1209	1276	1304
152.5°	1147	1177	1225	1279	1304
155°	1174	1198	1238	1280	1301
157.5°	1200	1220	1251	1282	1299
160°	1224	1237	1261	1286	1298
162.5°	1245	1254	1271	1288	1300
165°	1261	1267	1279	1289	1298
167.5°	1275	1278	1283	1288	1296
170°	1287	1288	1288	1289	1295
172.5°	1296	1295	1293	1288	1294
175°	1301	1298	1293	1288	1291
177.5°	1305	1300	1295	1287	1290
180°	1294	1294	1294	1294	1294

(END OF REPORT)