

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: 46590

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

Issue Date: 3/3/2020

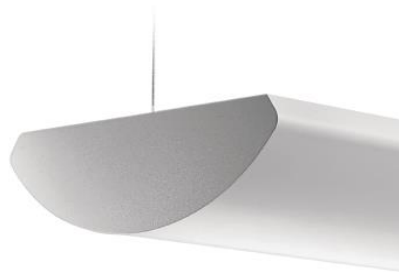
Test Information

Test Method: LM-41-14
Report Number: 46590
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: AI-SN-2T8
Description: FABRICATED METAL HOUSING WITH WHITE INTERIOR FINISH, WHITE PAINTED CENTER STRIP REFLECTOR WITH SPECULAR 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 87.3 %
THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.
TOTAL INPUT WATTS= 60.1 AT 120.0 VOLTS
LUMEN TO CANDELA RATIO USED= 9.17

Summary

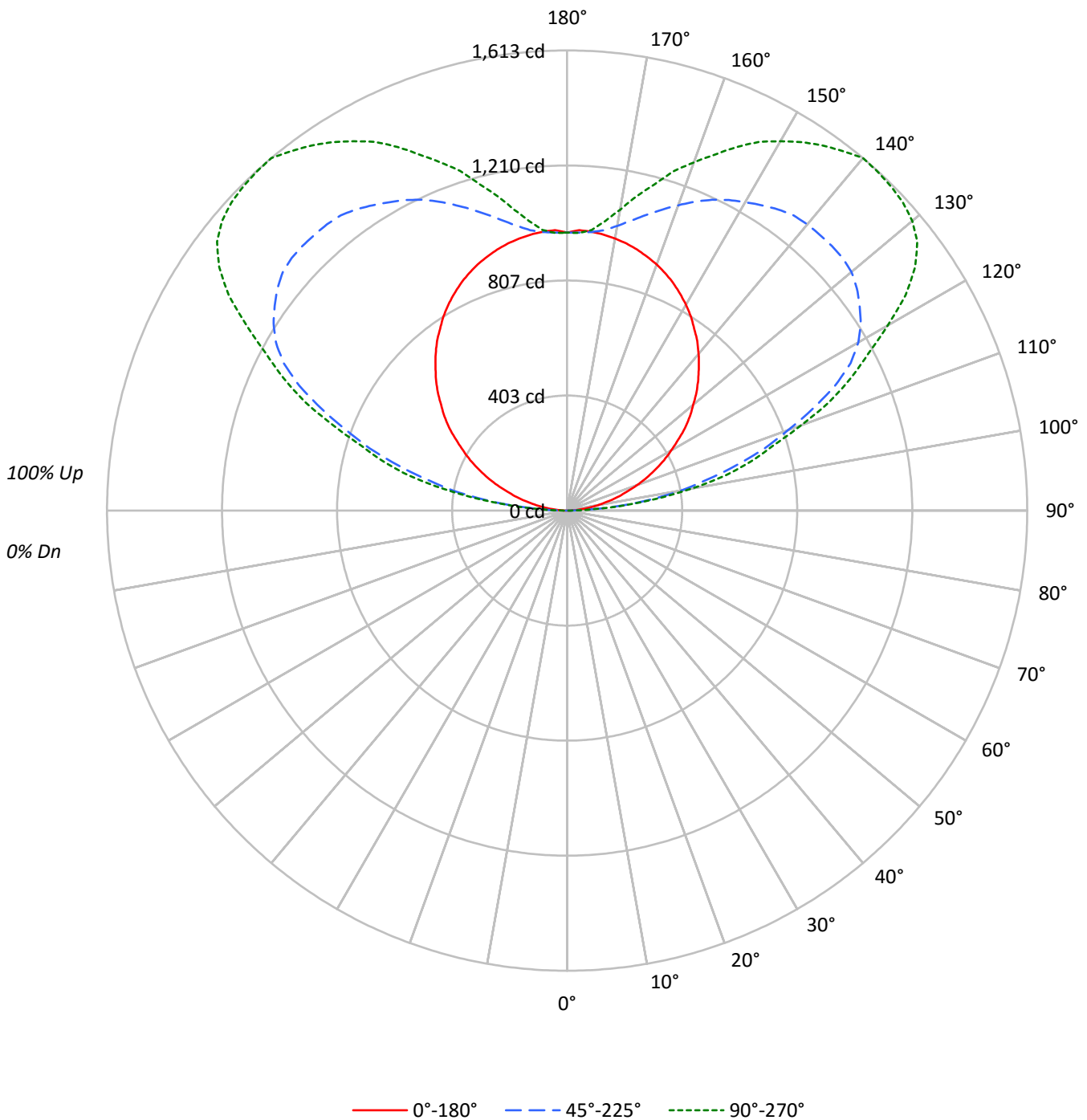
Lumens per Lamp: 3000 (2 lamps)
Luminaire Lumens: 5363.6 lumens
Efficiency: 89.4%
Efficacy: 89.2 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.25')
CIE Type: Indirect

Input Watts (W): 60.1
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	85	85	85	85	73	73	73	73	50	50	50	29	29	29	9	9	9	0
1	77	74	71	68	66	63	61	58	43	42	40	25	24	23	8	8	8	0
2	70	64	59	55	60	55	51	48	38	35	33	22	21	20	7	7	6	0
3	64	56	51	46	55	48	44	40	33	30	28	19	18	16	6	6	5	0
4	58	50	43	38	50	43	37	33	29	26	23	17	15	14	5	5	5	0
5	53	44	37	33	45	38	32	28	26	23	20	15	13	12	5	4	4	0
6	49	39	33	28	42	34	28	24	23	20	17	13	12	10	4	4	3	0
7	45	35	29	24	38	30	25	21	21	17	15	12	10	9	4	3	3	0
8	42	32	25	21	35	27	22	18	19	15	13	11	9	8	4	3	3	0
9	39	29	22	18	33	25	19	16	17	14	11	10	8	7	3	3	2	0
10	36	26	20	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°	194.5	3.6	3.2
100°-110°	594.1	11.1	9.9
110°-120°	891.0	16.6	14.9
120°-130°	1019.9	19.0	17.0
130°-140°	951.7	17.7	15.9
140°-150°	773.4	14.4	12.9
150°-160°	540.9	10.1	9.0
160°-170°	303.4	5.7	5.1
170°-180°	94.6	1.8	1.6
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°	1679.6	31.3	28.0
90°-150°	4424.6	82.5	73.7
90°-180°	5364.0	100.0	89.4
0°-180°	5363.6	100.0	89.4

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	5
95°	47	177	177	217	189	51
105°	183	554	615	666	668	193
115°	341	762	1036	1097	1097	338
125°	504	882	1252	1457	1489	449
135°	650	951	1312	1538	1606	501
145°	777	990	1289	1483	1562	487
155°	880	990	1202	1335	1406	405
165°	947	977	1073	1140	1184	267
175°	981	979	980	978	987	93
180°	974	974	974	974	974	



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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°	20	87	74	98	71
95°	47	177	177	217	189
97.5°	77	279	295	339	312
100°	110	371	406	463	444
102.5°	144	461	503	577	569
105°	183	554	615	666	668
107.5°	219	620	726	777	756
110°	260	675	824	893	872
112.5°	302	722	931	1003	995
115°	341	762	1036	1097	1097
117.5°	383	797	1120	1204	1189
120°	421	827	1179	1312	1297
122.5°	461	857	1220	1400	1407
125°	504	882	1252	1457	1489
127.5°	542	902	1280	1493	1547
130°	577	920	1301	1514	1579
132.5°	615	938	1310	1528	1597
135°	650	951	1312	1538	1606
137.5°	683	965	1311	1542	1611
140°	717	976	1310	1527	1613
142.5°	749	985	1304	1507	1588
145°	777	990	1289	1483	1562
147.5°	807	992	1269	1457	1531
150°	833	993	1248	1424	1495
152.5°	857	992	1227	1381	1457
155°	880	990	1202	1335	1406
157.5°	900	987	1172	1292	1350
160°	918	984	1139	1246	1299
162.5°	933	980	1106	1193	1248
165°	947	977	1073	1140	1184
167.5°	959	976	1041	1089	1129
170°	968	976	1013	1042	1071
172.5°	976	978	991	1000	1024
175°	981	979	980	978	987
177.5°	984	979	975	970	974
180°	974	974	974	974	974

(END OF REPORT)