

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: 46589

Luminaire Tested: **AI-SN-1T8**

Issue Date: 3/3/2020

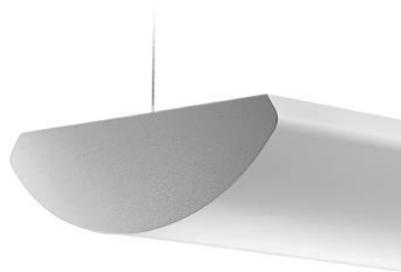
Test Information

Test Method: LM-41-14
Report Number: 46589
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: AI-SN-1T8
Description: FABRICATED METAL HOUSING WITH WHITE INTERIOR FINISH, WHITE PAINTED CENTER STRIP REFLECTOR WITH SPECULAR METAL SIDE PIECES, OPEN TOP. LAMP MOUNTED OBLIQUELY ACROSS WHITE CENTER STRIP.
Light Source: ONE 32-WATT F32T8/TL835 FLUORESCENT.
Ballast/Driver: MOTOROLA M1-RN-T8-1LL-120
MOUNTING SUSPENDED
PAINT REFL 87.0 %
THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMP.
TOTAL INPUT WATTS= 30.6 AT 120.0 VOLTS
LUMEN TO CANDELA RATIO USED= 9.17

Summary

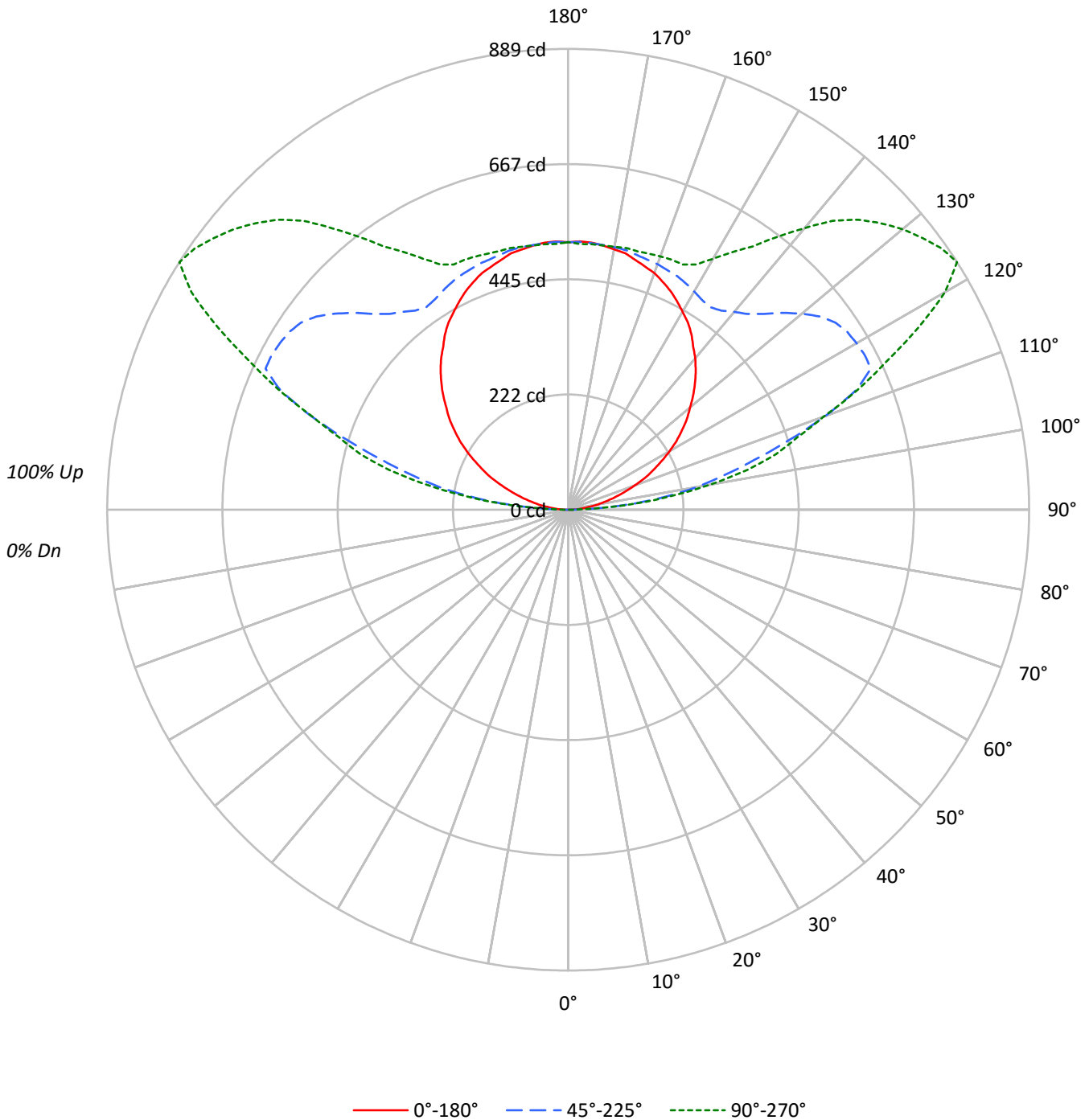
Lumens per Lamp: 3000 (1 lamp)
Luminaire Lumens: 2689.9 lumens
Efficiency: 89.7%
Efficacy: 87.9 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.25')
CIE Type: Indirect

Input Watts (W): 30.6
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	78	74	71	68	66	63	61	58	43	42	40	25	24	24	8	8	8	0
2	71	65	60	55	60	55	51	48	38	35	33	22	21	20	7	7	6	0
3	64	57	51	46	55	49	44	40	33	30	28	19	18	16	6	6	5	0
4	59	50	43	39	50	43	38	33	29	26	24	17	15	14	5	5	5	0
5	54	44	37	33	46	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	14	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	31	22	17	14	16	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°	123.1	4.6	4.1
100°-110°	358.4	13.3	11.9
110°-120°	518.5	19.3	17.3
120°-130°	524.2	19.5	17.5
130°-140°	426.5	15.9	14.2
140°-150°	316.4	11.8	10.5
150°-160°	229.6	8.5	7.7
160°-170°	144.1	5.4	4.8
170°-180°	49.1	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°	1000.0	37.2	33.3
90°-150°	2267.0	84.3	75.6
90°-180°	2690.0	100.0	89.7
0°-180°	2689.9	100.0	89.7

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	4
95°	27	112	118	141	124	28
105°	94	328	372	411	415	100
115°	181	348	644	704	678	179
125°	268	335	629	808	879	240
135°	346	384	534	716	791	267
145°	414	437	477	569	620	258
155°	466	478	497	514	522	215
165°	499	504	509	513	516	141
175°	517	517	516	513	514	49
180°	516	516	516	516	516	



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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°	14	55	51	68	47
95°	27	112	118	141	124
97.5°	40	164	186	216	198
100°	58	235	252	292	277
102.5°	74	294	309	356	353
105°	94	328	372	411	415
107.5°	113	339	447	469	463
110°	136	352	527	547	524
112.5°	160	354	600	621	604
115°	181	348	644	704	678
117.5°	203	338	645	778	762
120°	226	332	642	829	839
122.5°	248	333	638	824	889
125°	268	335	629	808	879
127.5°	289	342	612	794	861
130°	307	355	588	775	842
132.5°	327	371	562	751	818
135°	346	384	534	716	791
137.5°	364	398	512	678	756
140°	381	411	498	639	709
142.5°	396	424	484	598	664
145°	414	437	477	569	620
147.5°	429	449	480	545	589
150°	441	459	486	523	559
152.5°	454	469	492	514	533
155°	466	478	497	514	522
157.5°	476	487	500	515	522
160°	486	494	504	515	520
162.5°	492	499	506	513	518
165°	499	504	509	513	516
167.5°	507	511	513	515	517
170°	510	513	514	513	515
172.5°	514	515	515	513	514
175°	517	517	516	513	514
177.5°	518	518	517	512	513
180°	516	516	516	516	516

(END OF REPORT)