

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: 14065

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 14065
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: AW-SN-2T8
Description: FLUORESCENT INDIRECT INDOOR LUMINAIRE WITH WHITE INTERIOR AND SPECULAR REFLECTOR
Light Source: TWO 32 WATT PHILIPS LAMPS

F32T8/TL841. LUMEN RATING = 3000 LMS.

Ballast/Driver: -

Summary

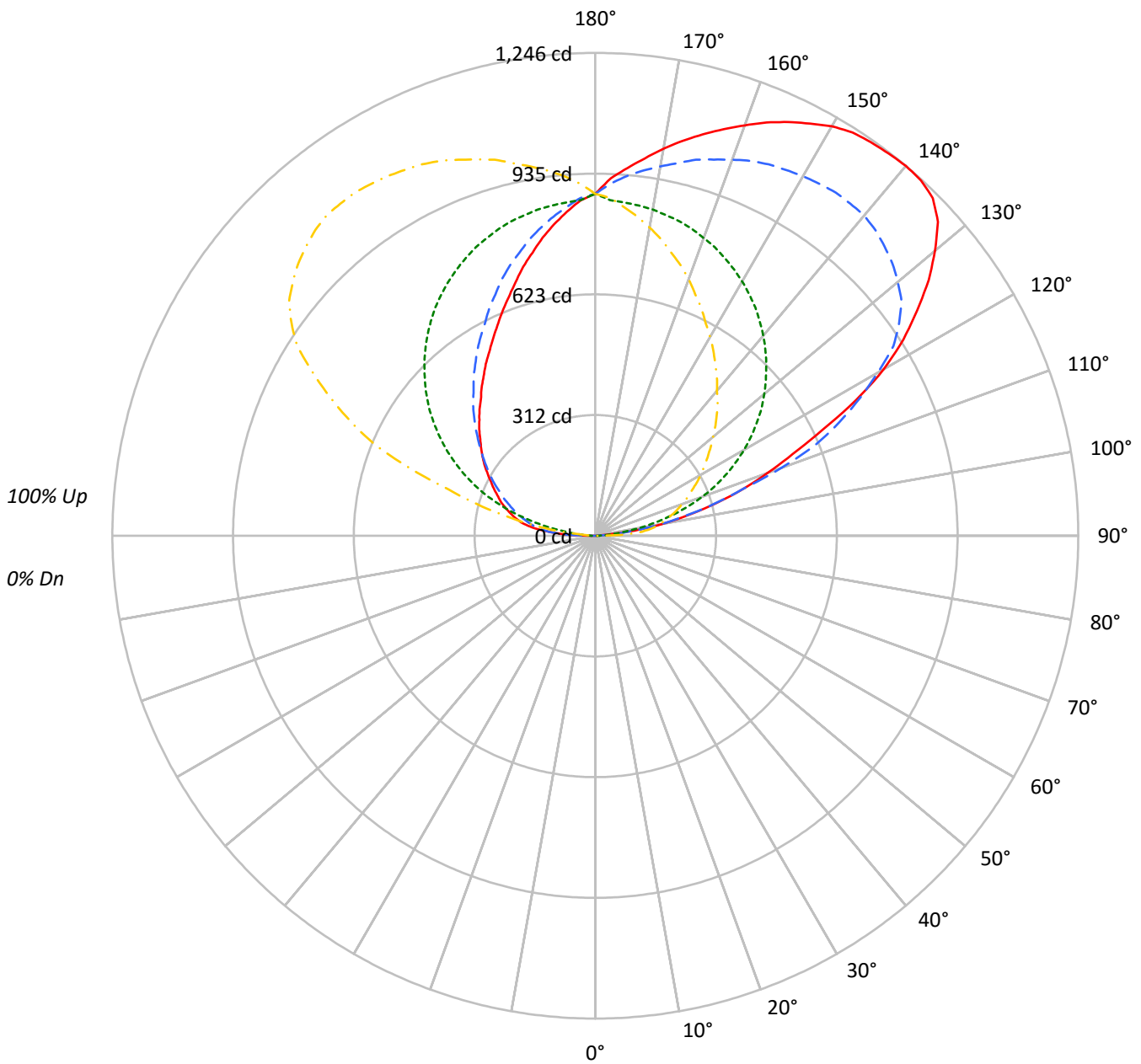
Lumens per Lamp: 3000 (2 lamps)
Luminaire Lumens: 3165.8 lumens
Efficiency: 52.8%
Efficacy: 54.6 lumens/watt
N/A
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 4' x H: 0.16')
CIE Type: Indirect

Input Watts (W): 58
Input Voltage (V): NR
Input Current (A_{in}): 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



— 0°-180° - - - 45°-225° ···· 90°-270° - · - · 135°-315°



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									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	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																														
0	50	50	50	50	43	43	43	43	29	29	29	17	17	17	5	5	5	0																												
1	46	44	42	40	39	37	36	34	26	25	24	15	14	14	5	5	4	0																												
2	42	38	35	33	35	33	30	28	22	21	20	13	12	12	4	4	4	0																												
3	38	33	30	27	32	29	26	23	20	18	16	11	10	10	4	3	3	0																												
4	35	29	26	23	29	25	22	20	17	15	14	10	9	8	3	3	3	0																												
5	32	26	22	19	27	22	19	17	15	13	12	9	8	7	3	3	2	0																												
6	29	23	19	16	25	20	17	14	14	12	10	8	7	6	3	2	2	0																												
7	27	21	17	14	23	18	15	12	12	10	9	7	6	5	2	2	2	0																												
8	25	19	15	12	21	16	13	11	11	9	8	6	5	5	2	2	2	0																												
9	23	17	13	11	19	15	11	9	10	8	7	6	5	4	2	2	1	0																												
10	21	15	12	9	18	13	10	8	9	7	6	5	4	4	2	1	1	0																												

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
95°	398	516	5242	516
100°	4461	1262	4861	1262
105°	5790	1946	4120	1946
110°	6706	2459	3689	2459
115°	7581	2806	3392	2806
120°	8652	3067	3230	3067
125°	8996	3276	3154	3276
130°	9140	3449	3098	3449
135°	9013	3596	3096	3596
140°	8468	3734	3121	3734
145°	7922	3862	3209	3862
150°	7411	3975	3323	3975
155°	6867	4084	3487	4084
160°	6362	4194	3694	4194
165°	5911	4311	3961	4311
170°	5504	4421	4239	4421
175°	5129	4537	4517	4537



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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°	84.2	2.7	1.4
100°-110°	277.4	8.8	4.6
110°-120°	453.2	14.3	7.6
120°-130°	559.9	17.7	9.3
130°-140°	568.5	18.0	9.5
140°-150°	502.4	15.9	8.4
150°-160°	389.7	12.3	6.5
160°-170°	246.4	7.8	4.1
170°-180°	84.1	2.7	1.4
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°	814.8	25.7	13.6
90°-150°	2445.6	77.3	40.8
90°-180°	3166.0	100.0	52.8
0°-180°	3165.8	100.0	52.8

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
90°	0	0	0	0	0	
95°	9	39	124	39	9	55
105°	320	205	228	205	320	339
115°	646	372	289	372	646	648
125°	1014	509	355	509	1014	904
135°	1232	624	423	624	1232	942
145°	1240	720	502	720	1240	778
155°	1178	790	598	790	1178	546
165°	1072	840	718	840	1072	305
175°	953	863	839	863	953	93
180°	882	882	882	882	882	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
92.5°	0.5	1.5	1.5	19.0	17.3	60.6	80.7	62.2	79.8	62.2	80.7
95°	9.4	39.4	34.1	63.9	38.9	88.7	122.0	109.8	123.7	109.8	122.0
97.5°	102.6	122.0	102.6	127.3	70.6	107.2	147.5	152.1	164.3	152.1	147.5
100°	176.6	187.1	170.3	201.3	114.6	126.4	167.7	179.2	192.4	179.2	167.7
102.5°	244.3	259.2	240.0	304.1	158.9	144.9	184.5	198.7	210.9	198.7	184.5
105°	320.0	350.0	316.4	389.6	205.3	167.0	203.0	215.2	227.7	215.2	203.0
107.5°	396.6	412.5	397.3	449.5	249.7	187.1	220.5	232.8	244.3	232.8	220.5
110°	473.0	490.8	510.0	513.6	293.6	211.9	238.1	252.2	260.2	252.2	238.1
112.5°	550.6	586.6	617.4	569.1	333.2	236.4	256.6	261.9	273.4	261.9	256.6
115°	646.4	717.8	695.7	621.9	371.5	261.1	273.4	281.3	289.2	281.3	273.4
117.5°	759.1	804.7	769.7	658.0	407.5	287.6	294.5	296.2	304.1	296.2	294.5
120°	859.5	887.6	841.7	700.2	442.8	309.4	313.7	312.1	320.9	312.1	313.7
122.5°	942.1	962.3	912.1	734.3	476.6	342.1	333.2	331.5	338.5	331.5	333.2
125°	1013.5	1035.3	957.0	763.4	508.7	370.2	353.4	348.1	355.3	348.1	353.4
127.5°	1083.9	1108.4	995.7	794.2	540.5	398.3	374.5	364.9	371.1	364.9	374.5
130°	1143.7	1144.4	1018.8	811.9	569.0	425.7	396.6	383.4	387.7	383.4	396.6
132.5°	1198.9	1180.7	1039.7	833.8	596.7	452.1	420.4	398.3	406.2	398.3	420.4
135°	1231.6	1195.6	1055.5	851.6	623.6	484.5	443.2	420.4	423.0	420.4	443.2
137.5°	1243.8	1202.5	1069.7	870.1	649.6	512.6	467.0	439.6	442.2	439.6	467.0
140°	1245.8	1201.6	1078.6	881.4	674.2	541.7	488.1	460.7	459.1	460.7	488.1
142.5°	1243.1	1203.5	1080.3	895.5	697.1	566.4	515.3	476.6	481.9	476.6	515.3
145°	1239.5	1199.9	1081.2	904.2	719.5	600.8	540.0	503.0	502.1	503.0	540.0
147.5°	1234.2	1189.3	1076.6	913.1	738.8	627.9	566.4	525.1	525.8	525.1	566.4
150°	1220.1	1170.8	1071.4	920.0	757.8	654.4	591.9	549.6	547.0	549.6	591.9
152.5°	1198.9	1156.9	1064.4	923.6	774.9	680.8	617.4	573.4	572.4	573.4	617.4
155°	1178.0	1137.4	1057.4	927.2	790.4	701.9	647.4	595.5	598.1	595.5	647.4
157.5°	1154.2	1117.2	1046.9	928.0	806.0	728.3	673.8	627.9	626.3	627.9	673.8
160°	1126.9	1089.9	1032.7	928.9	817.6	749.5	704.6	656.0	654.4	656.0	704.6
162.5°	1099.7	1070.6	1017.8	926.3	829.9	770.6	731.7	687.0	685.1	687.0	731.7
165°	1072.3	1044.9	1004.6	923.6	840.0	785.5	756.4	709.8	718.5	709.8	756.4
167.5°	1044.2	1017.8	985.1	919.3	847.1	808.3	783.8	747.6	748.5	747.6	783.8
170°	1014.2	991.4	967.6	913.1	854.6	825.1	807.4	777.6	781.2	777.6	807.4
172.5°	982.5	958.0	951.0	905.1	859.4	840.0	830.4	804.7	811.0	804.7	830.4
175°	952.7	936.8	931.6	898.2	863.3	854.9	851.6	832.1	839.1	832.1	851.6
177.5°	923.6	907.8	909.5	887.6	866.9	865.5	872.7	853.3	866.5	853.3	872.7
180°	882.3	882.3	882.3	882.3	882.3	882.3	882.3	882.3	882.3	882.3	882.3



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.5	0.5	0.5	0.5	0.5	0.5
92.5°	60.6	17.3	19.0	1.5	1.5	0.5
95°	88.7	38.9	63.9	34.1	39.4	9.4
97.5°	107.2	70.6	127.3	102.6	122.0	102.6
100°	126.4	114.6	201.3	170.3	187.1	176.6
102.5°	144.9	158.9	304.1	240.0	259.2	244.3
105°	167.0	205.3	389.6	316.4	350.0	320.0
107.5°	187.1	249.7	449.5	397.3	412.5	396.6
110°	211.9	293.6	513.6	510.0	490.8	473.0
112.5°	236.4	333.2	569.1	617.4	586.6	550.6
115°	261.1	371.5	621.9	695.7	717.8	646.4
117.5°	287.6	407.5	658.0	769.7	804.7	759.1
120°	309.4	442.8	700.2	841.7	887.6	859.5
122.5°	342.1	476.6	734.3	912.1	962.3	942.1
125°	370.2	508.7	763.4	957.0	1035.3	1013.5
127.5°	398.3	540.5	794.2	995.7	1108.4	1083.9
130°	425.7	569.0	811.9	1018.8	1144.4	1143.7
132.5°	452.1	596.7	833.8	1039.7	1180.7	1198.9
135°	484.5	623.6	851.6	1055.5	1195.6	1231.6
137.5°	512.6	649.6	870.1	1069.7	1202.5	1243.8
140°	541.7	674.2	881.4	1078.6	1201.6	1245.8
142.5°	566.4	697.1	895.5	1080.3	1203.5	1243.1
145°	600.8	719.5	904.2	1081.2	1199.9	1239.5
147.5°	627.9	738.8	913.1	1076.6	1189.3	1234.2
150°	654.4	757.8	920.0	1071.4	1170.8	1220.1
152.5°	680.8	774.9	923.6	1064.4	1156.9	1198.9
155°	701.9	790.4	927.2	1057.4	1137.4	1178.0
157.5°	728.3	806.0	928.0	1046.9	1117.2	1154.2
160°	749.5	817.6	928.9	1032.7	1089.9	1126.9
162.5°	770.6	829.9	926.3	1017.8	1070.6	1099.7
165°	785.5	840.0	923.6	1004.6	1044.9	1072.3
167.5°	808.3	847.1	919.3	985.1	1017.8	1044.2
170°	825.1	854.6	913.1	967.6	991.4	1014.2
172.5°	840.0	859.4	905.1	951.0	958.0	982.5
175°	854.9	863.3	898.2	931.6	936.8	952.7
177.5°	865.5	866.9	887.6	909.5	907.8	923.6
180°	882.3	882.3	882.3	882.3	882.3	882.3

(END OF REPORT)