

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: 16853

Luminaire Tested: **AB-WO-2T8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 16853
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: AB-WO-2T8
Description: CORELITE - SUSPENDED DIRECT/INDIRECT LUMINAIRE

WITH WHITE LENS OVER TWO ROWS OF RECTANGULAR APERTURES

Light Source: TWO PHILIPS 32 WATT T8 LAMPS

F32T8/TL841. LUMEN RATING = 3000 LMS.

Ballast/Driver: ONE SYLVANIA QT2X32/120 IS-SC BALLAST OPERATING AT 120 VAC AND 61 WATTS

Summary

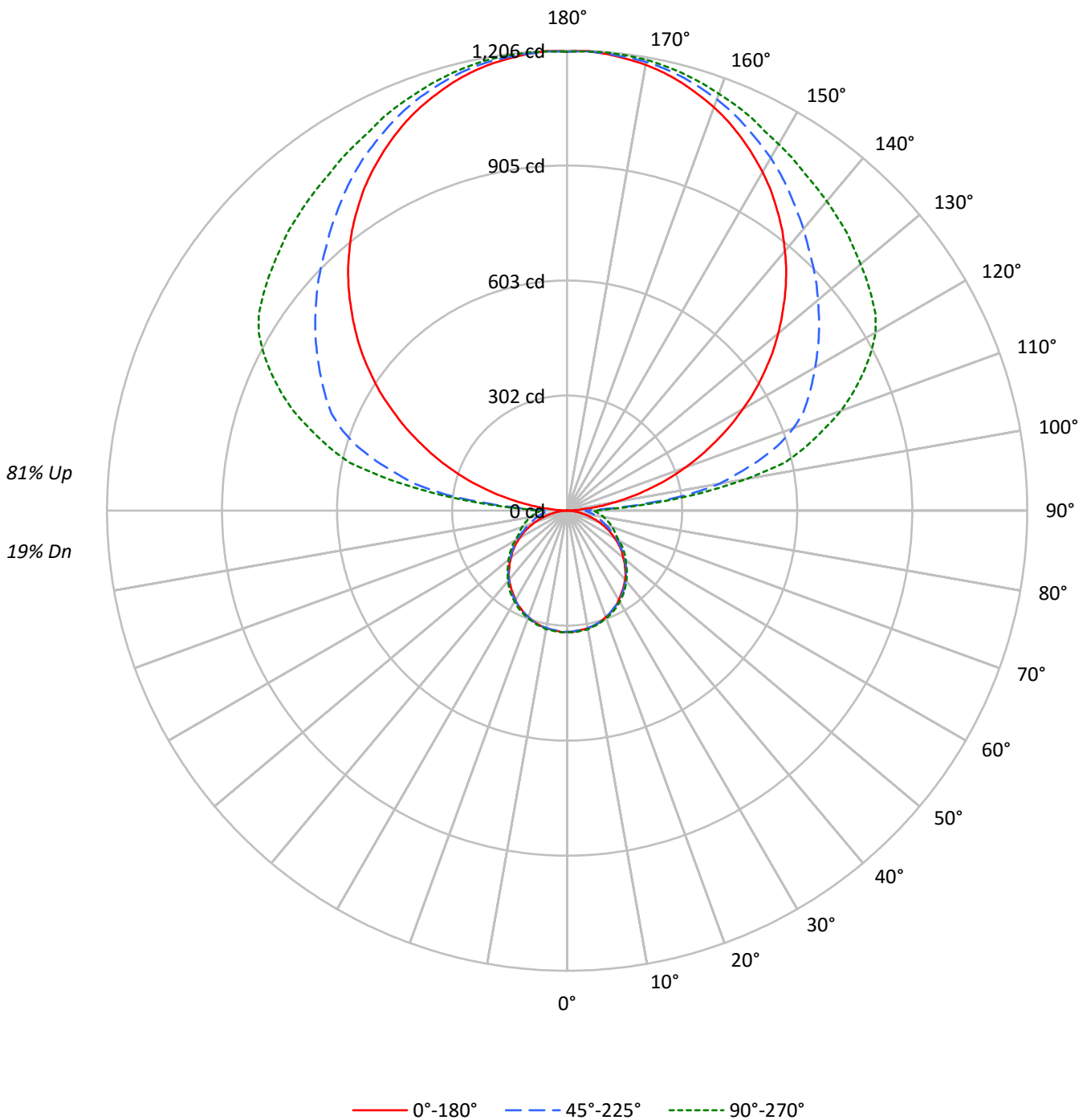
Lumens per Lamp: 3000 (2 lamps)
Luminaire Lumens: 5395.9 lumens
Efficiency: 89.9%
Efficacy: 88.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.25')
CIE Type: Semi-Indirect

Input Watts (W): 61
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	90	90	90	90	79	79	79	79	59	59	59	41	41	41	25	25	25	17
1	81	77	74	71	71	68	65	63	51	49	48	36	34	33	21	21	20	13
2	74	67	62	57	65	59	55	51	45	42	39	31	29	28	18	17	17	11
3	67	59	53	48	59	52	47	42	39	36	33	27	25	23	16	15	14	9
4	61	52	45	40	54	46	40	36	35	31	28	24	22	20	14	13	12	8
5	56	46	39	34	49	41	35	30	31	27	24	22	19	17	13	11	10	7
6	51	41	34	29	45	36	30	26	28	23	20	19	17	15	12	10	9	6
7	47	37	30	25	42	33	27	23	25	21	18	17	15	13	11	9	8	5
8	44	33	27	22	38	30	24	20	22	18	15	16	13	11	10	8	7	5
9	41	30	24	19	36	27	21	17	20	16	14	14	12	10	9	7	6	4
10	38	27	21	17	33	24	19	15	19	15	12	13	11	9	8	7	6	4

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1141	1141	1141
5°	1133	1108	1114
10°	1129	1083	1088
15°	1120	1058	1055
20°	1108	1030	1023
25°	1096	998	992
30°	1082	969	956
35°	1065	941	925
40°	1053	902	884
45°	1023	867	841
50°	995	821	799
55°	973	775	762
60°	930	727	709
65°	882	673	684
70°	802	626	685
75°	694	602	686
80°	542	597	693
85°	274	588	702



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	30.1	0.6	0.5
10°-20°	86.4	1.6	1.4
20°-30°	131.6	2.4	2.2
30°-40°	160.2	3.0	2.7
40°-50°	167.7	3.1	2.8
50°-60°	155.2	2.9	2.6
60°-70°	126.5	2.3	2.1
70°-80°	93.3	1.7	1.6
80°-90°	59.7	1.1	1.0
90°-100°	202.9	3.8	3.4
100°-110°	505.3	9.4	8.4
110°-120°	658.6	12.2	11.0
120°-130°	717.1	13.3	12.0
130°-140°	707.2	13.1	11.8
140°-150°	638.0	11.8	10.6
150°-160°	511.0	9.5	8.5
160°-170°	330.9	6.1	5.5
170°-180°	114.2	2.1	1.9
0°-30°	248.1	4.6	4.1
0°-40°	408.3	7.6	6.8
0°-60°	731.2	13.6	12.2
0°-90°	1010.7	18.7	16.8
90°-120°	1366.8	25.3	22.8
90°-150°	3429.1	63.5	57.2
90°-180°	4385.0	81.3	73.1
0°-180°	5395.9	100.0	89.9

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	318	318	318	318	318	
5°	316	316	315	316	318	30
15°	307	305	306	305	309	87
25°	285	284	285	286	289	131
35°	254	254	257	258	260	159
45°	214	215	219	218	221	166
55°	169	170	173	176	180	151
65°	118	120	127	133	138	116
75°	62	71	89	106	111	66
85°	11	33	60	76	82	14
90°	0	24	48	66	69	2
95°	44	146	205	222	232	55
105°	228	357	528	609	648	241
115°	430	503	697	820	857	426
125°	630	662	806	919	975	563
135°	808	836	910	994	1034	623
145°	960	986	1017	1061	1082	601
155°	1079	1088	1110	1123	1138	497
165°	1161	1162	1175	1176	1185	328
175°	1201	1198	1202	1198	1205	114
180°	1203	1203	1203	1203	1203	



TEST NUMBER: 16853
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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	318.0	318.0	318.0	318.0	318.0
2.5°	318.8	318.4	317.1	317.4	319.3
5°	316.2	316.2	315.2	316.2	318.3
7.5°	314.7	314.0	314.7	313.5	316.6
10°	313.4	312.1	312.0	312.0	316.2
12.5°	310.3	308.5	309.8	308.0	311.6
15°	306.7	304.8	306.2	305.3	309.4
17.5°	302.1	301.7	302.6	302.1	304.3
20°	296.7	295.8	297.2	296.2	300.3
22.5°	291.7	289.9	291.2	291.7	295.3
25°	284.9	283.9	284.9	286.2	289.4
27.5°	279.0	276.3	279.0	279.5	283.1
30°	270.5	269.5	271.8	272.6	275.3
32.5°	261.8	261.7	264.9	265.4	268.1
35°	253.7	254.0	256.9	257.7	260.5
37.5°	244.5	245.0	247.2	247.7	250.9
40°	236.5	236.0	237.7	239.6	241.4
42.5°	226.5	225.6	227.8	229.2	231.0
45°	214.3	214.7	218.8	217.9	221.0
47.5°	204.3	204.8	207.9	207.9	209.8
50°	191.6	192.1	196.1	196.7	200.1
52.5°	181.7	181.6	184.4	187.5	190.7
55°	169.4	169.8	173.4	175.8	179.9
57.5°	157.6	158.5	162.1	166.8	169.5
60°	143.6	145.0	150.4	154.9	155.8
62.5°	130.9	133.6	139.6	143.3	146.4
65°	117.8	120.0	126.8	133.3	138.2
67.5°	102.9	106.9	116.8	125.6	132.3
70°	89.6	95.1	105.6	119.2	125.1
72.5°	76.0	81.6	97.0	112.9	119.2
75°	61.7	71.2	88.8	105.6	111.0
77.5°	48.6	59.5	82.0	98.8	104.6
80°	35.5	51.3	74.8	91.5	96.9
82.5°	23.1	41.3	67.6	83.3	90.1
85°	11.4	33.1	60.0	76.5	82.0
87.5°	1.9	25.5	50.8	67.1	75.2
90°	0.5	23.6	48.5	66.1	69.4
92.5°	13.6	69.7	100.1	116.4	122.4
95°	44.5	145.5	205.2	221.5	232.4
97.5°	85.2	216.9	320.3	337.0	355.5
100°	129.1	285.8	404.8	479.6	476.9
102.5°	176.6	307.1	463.7	524.4	586.0
105°	227.9	356.9	527.6	608.7	648.0
107.5°	279.5	392.2	585.6	673.8	704.6
110°	329.7	427.9	631.3	727.7	763.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	380.0	466.0	669.2	775.7	812.4
115°	430.3	503.1	696.9	819.7	856.8
117.5°	482.2	546.1	723.6	856.3	897.9
120°	531.7	589.1	750.8	884.3	933.3
122.5°	582.8	642.0	778.0	911.0	958.2
125°	630.4	662.4	805.6	918.7	974.6
127.5°	677.4	712.3	831.8	940.6	990.3
130°	722.4	756.3	858.1	958.6	1004.3
132.5°	765.3	797.1	885.3	978.1	1018.4
135°	808.3	836.4	910.5	994.0	1034.3
137.5°	850.0	873.1	935.5	1009.4	1045.6
140°	888.0	910.2	963.7	1024.2	1058.7
142.5°	926.0	944.6	989.4	1040.6	1070.0
145°	960.0	986.2	1016.6	1061.3	1081.7
147.5°	994.3	1000.3	1042.9	1069.0	1096.7
150°	1024.4	1036.1	1067.3	1089.0	1108.6
152.5°	1052.3	1064.5	1088.2	1107.6	1121.2
155°	1079.1	1088.2	1109.9	1123.0	1138.0
157.5°	1103.5	1110.3	1129.8	1139.3	1151.1
160°	1124.9	1129.8	1147.5	1154.2	1162.4
162.5°	1143.3	1146.5	1162.0	1164.5	1174.6
165°	1160.6	1162.0	1175.4	1175.9	1184.6
167.5°	1175.1	1177.8	1185.9	1186.8	1192.7
170°	1186.4	1181.4	1194.1	1188.7	1199.5
172.5°	1194.1	1192.7	1198.2	1195.5	1202.7
175°	1200.9	1197.7	1201.8	1197.8	1205.0
177.5°	1205.5	1201.8	1204.5	1197.8	1204.1
180°	1202.9	1202.9	1202.9	1202.9	1202.9

(END OF REPORT)