

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: 16856

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 16856
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: AB-WP-2T8
Description: CORELITE - SUSPENDED DIRECT/INDIRECT LUMINAIRE
WHITE LENS WITH ROUND PERF PRINT 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

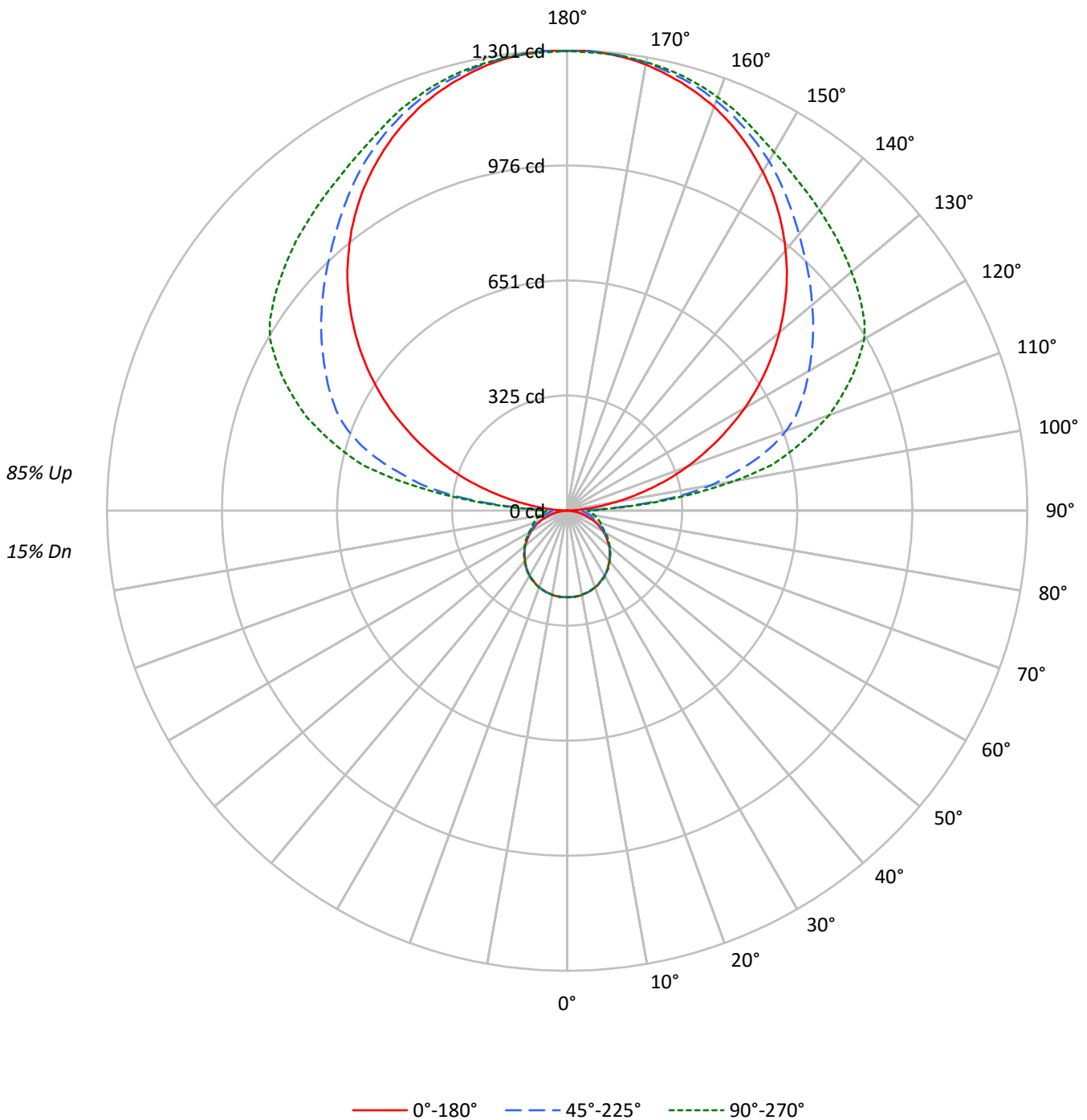
Lumens per Lamp: 3000 (2 lamps)
Luminaire Lumens: 5438.8 lumens
Efficiency: 90.6%
Efficacy: 89.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.25')
CIE Type: Semi-Indirect

Input Watts (W): 61
Input Voltage (V): NR
Input Current (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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CATALOG NUMBER: AB-WP-2T8

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	78	78	78	78	58	58	58	39	39	39	22	22	22	13
1	81	77	74	71	71	68	65	62	50	48	46	34	32	32	18	18	17	11
2	74	67	62	57	64	59	55	51	44	41	38	29	28	26	16	15	14	9
3	67	59	53	48	58	52	46	42	38	35	32	26	24	22	14	13	12	7
4	61	52	45	40	53	46	40	35	34	30	27	23	20	18	12	11	10	6
5	56	46	39	34	49	40	35	30	30	26	23	20	18	16	11	10	9	5
6	51	41	34	29	45	36	30	26	27	23	20	18	16	14	10	9	8	5
7	47	37	30	25	41	32	27	22	24	20	17	16	14	12	9	8	7	4
8	44	33	26	22	38	29	24	20	22	18	15	15	12	10	8	7	6	4
9	41	30	24	19	35	27	21	17	20	16	13	14	11	9	8	6	5	3
10	38	27	21	17	33	24	19	15	18	14	12	12	10	8	7	6	5	3

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	879	879	879
5°	872	858	859
10°	873	838	832
15°	868	821	811
20°	862	800	787
25°	854	775	763
30°	849	759	741
35°	838	734	716
40°	826	709	684
45°	815	685	653
50°	805	655	626
55°	780	615	599
60°	762	584	567
65°	729	553	541
70°	673	512	548
75°	595	506	557
80°	464	493	566
85°	281	488	563



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	23.2	0.4	0.4
10°-20°	66.9	1.2	1.1
20°-30°	102.3	1.9	1.7
30°-40°	125.3	2.3	2.1
40°-50°	132.4	2.4	2.2
50°-60°	124.1	2.3	2.1
60°-70°	102.5	1.9	1.7
70°-80°	76.9	1.4	1.3
80°-90°	50.3	0.9	0.8
90°-100°	204.8	3.8	3.4
100°-110°	524.7	9.6	8.7
110°-120°	692.0	12.7	11.5
120°-130°	756.9	13.9	12.6
130°-140°	750.0	13.8	12.5
140°-150°	679.7	12.5	11.3
150°-160°	547.7	10.1	9.1
160°-170°	356.1	6.5	5.9
170°-180°	123.2	2.3	2.1
0°-30°	192.4	3.5	3.2
0°-40°	317.7	5.8	5.3
0°-60°	574.2	10.6	9.6
0°-90°	803.8	14.8	13.4
90°-120°	1421.4	26.1	23.7
90°-150°	3608.0	66.3	60.1
90°-180°	4635.0	85.2	77.3
0°-180°	5438.8	100.0	90.6

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	245	245	245	245	245	
5°	244	244	244	243	245	23
15°	238	236	238	237	238	67
25°	222	221	221	222	223	102
35°	200	200	200	201	202	125
45°	171	171	173	171	172	132
55°	136	138	138	140	141	122
65°	97	100	104	107	109	96
75°	53	60	75	86	90	56
85°	12	29	50	62	66	13
90°	0	24	42	60	58	3
95°	47	150	207	220	227	59
105°	248	380	549	628	659	262
115°	470	537	731	853	887	465
125°	684	704	848	964	1016	611
135°	876	897	962	1046	1082	675
145°	1038	1060	1082	1122	1137	649
155°	1165	1171	1191	1201	1209	537
165°	1252	1253	1264	1265	1271	353
175°	1296	1293	1298	1291	1296	123
180°	1299	1299	1299	1299	1299	



TEST NUMBER: 16856
 CATALOG NUMBER: AB-WP-2T8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	245.0	245.0	245.0	245.0	245.0
2.5°	244.9	244.5	245.0	245.0	244.9
5°	243.5	244.0	244.0	243.0	245.4
7.5°	244.0	243.1	243.5	242.3	243.1
10°	242.2	241.8	241.3	240.3	241.8
12.5°	239.1	239.1	239.9	239.4	239.4
15°	237.7	236.0	237.6	236.8	237.7
17.5°	234.5	233.6	233.8	234.1	233.6
20°	231.0	230.0	231.0	230.0	231.0
22.5°	227.3	225.1	227.3	226.3	227.0
25°	221.9	221.0	221.4	222.4	222.8
27.5°	216.4	215.5	217.4	216.9	218.8
30°	212.4	210.5	212.9	212.7	213.4
32.5°	206.1	206.1	206.1	206.4	207.3
35°	199.6	200.1	200.5	201.0	201.5
37.5°	192.3	192.5	194.2	194.2	193.8
40°	185.5	186.0	187.0	186.2	186.9
42.5°	177.5	178.4	179.7	180.2	179.2
45°	170.6	171.2	172.9	171.2	171.6
47.5°	162.6	163.4	163.4	164.3	164.4
50°	154.9	154.4	156.6	156.3	156.6
52.5°	145.4	146.7	147.2	148.6	149.5
55°	135.9	137.7	137.7	140.3	141.3
57.5°	126.3	128.1	129.4	132.8	133.5
60°	117.7	118.2	120.9	123.1	124.6
62.5°	106.4	108.3	111.9	115.0	115.5
65°	97.4	99.6	104.2	106.9	109.2
67.5°	86.9	88.3	94.6	100.5	105.1
70°	75.2	79.2	86.4	95.9	100.0
72.5°	63.9	69.2	78.7	90.1	95.1
75°	52.9	60.2	74.7	86.4	90.1
77.5°	41.3	50.2	68.5	80.6	84.2
80°	30.4	43.9	61.7	74.7	79.2
82.5°	19.9	36.7	55.3	67.9	72.9
85°	11.7	29.4	49.8	62.4	65.8
87.5°	2.2	23.6	44.4	56.1	61.2
90°	0.5	24.2	41.9	60.2	58.1
92.5°	15.8	71.1	98.3	113.1	114.1
95°	46.7	149.9	206.6	219.5	227.3
97.5°	91.0	225.5	323.2	346.0	352.7
100°	139.9	301.1	414.2	486.8	477.3
102.5°	192.3	323.7	479.5	529.3	590.5
105°	247.6	379.9	548.8	628.1	659.2
107.5°	304.7	417.9	609.0	695.9	724.4
110°	360.0	457.4	658.4	755.8	787.9



TEST NUMBER: 16856
 CATALOG NUMBER: AB-WP-2T8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	413.9	496.7	700.0	809.2	837.6
115°	470.1	537.0	730.8	853.0	887.0
117.5°	523.9	580.0	761.1	892.5	929.1
120°	580.5	623.9	789.3	925.0	969.9
122.5°	632.5	682.8	818.6	953.7	996.6
125°	684.2	704.5	848.0	963.6	1015.6
127.5°	734.9	758.9	876.7	987.5	1033.8
130°	782.5	807.8	904.6	1008.4	1049.6
132.5°	829.9	853.9	933.1	1028.2	1065.8
135°	875.7	897.4	961.8	1045.9	1081.7
137.5°	920.0	937.4	990.1	1063.2	1095.2
140°	960.3	978.9	1019.7	1079.9	1109.4
142.5°	1001.1	1015.6	1050.5	1098.4	1123.9
145°	1038.2	1060.5	1081.7	1122.0	1137.4
147.5°	1074.4	1075.8	1112.5	1130.6	1153.7
150°	1106.1	1115.2	1141.1	1156.4	1170.4
152.5°	1137.0	1144.6	1166.9	1178.1	1188.2
155°	1165.4	1171.3	1191.2	1201.3	1208.6
157.5°	1191.4	1195.3	1213.0	1219.8	1228.3
160°	1214.9	1216.6	1232.4	1236.5	1243.8
162.5°	1234.3	1236.5	1250.1	1252.4	1258.7
165°	1251.9	1253.3	1263.7	1265.2	1271.0
167.5°	1266.9	1270.1	1275.1	1276.4	1280.5
170°	1280.5	1275.1	1285.6	1279.5	1287.3
172.5°	1290.5	1286.9	1293.6	1288.3	1293.1
175°	1296.3	1293.1	1298.2	1291.4	1296.4
177.5°	1301.4	1297.3	1300.4	1294.1	1297.2
180°	1298.9	1298.9	1298.9	1298.9	1298.9

(END OF REPORT)