

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: 16857

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 16857
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: AB-WR-2T8
Description: CORELITE - SUSPENDED DIRECT/INDIRECT LUMINAIRE
WHITE LENS WITH RECTANGULAR 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

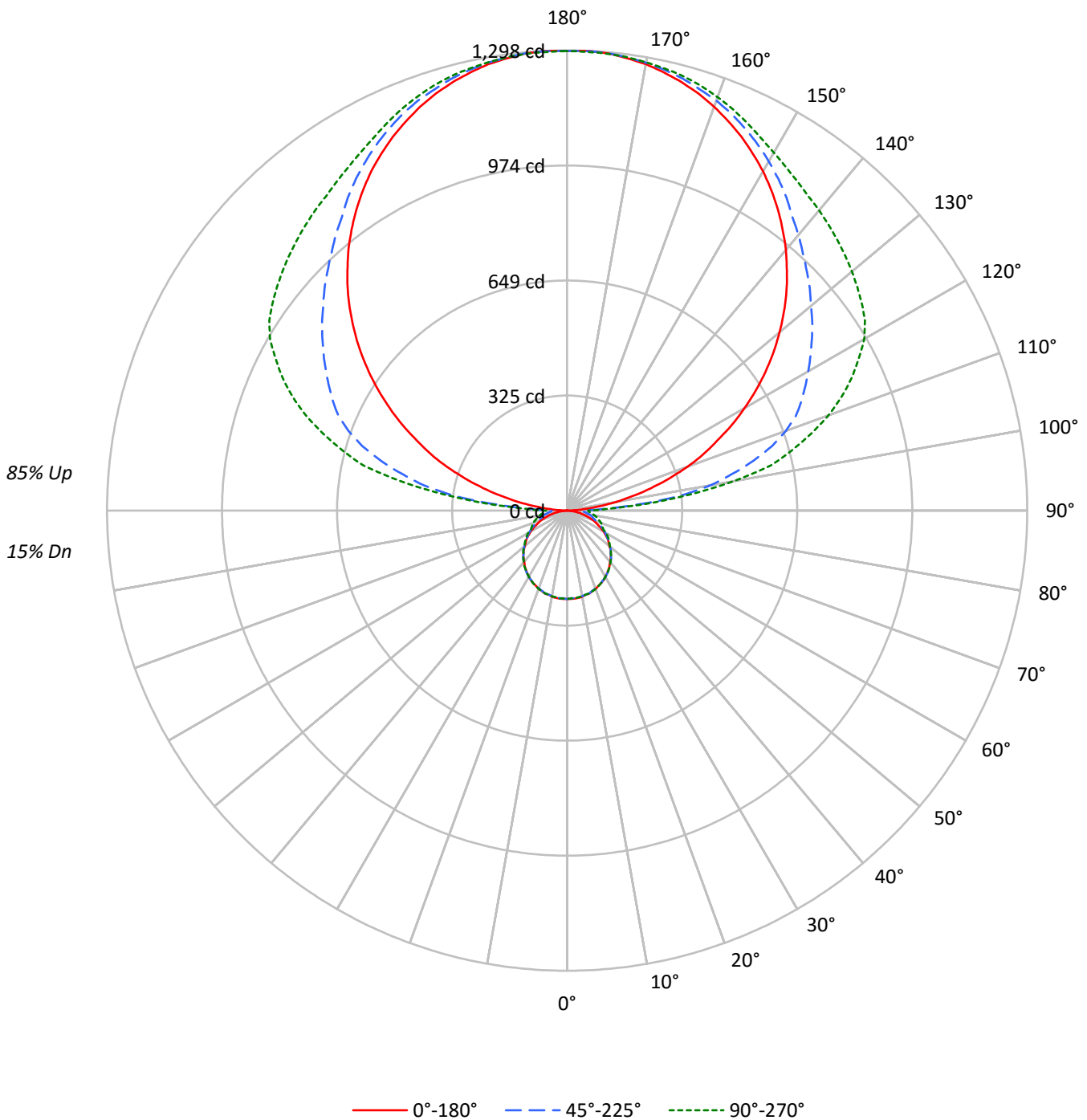
Lumens per Lamp: 3000 (2 lamps)
Luminaire Lumens: 5432.9 lumens
Efficiency: 90.5%
Efficacy: 89.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.25')
CIE Type: Semi-Indirect

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	89	89	89	89	78	78	78	78	58	58	58	39	39	39	22	22	22	14
1	81	77	74	71	71	68	65	62	50	48	46	34	33	32	19	18	18	11
2	74	67	62	57	64	59	55	51	44	41	38	29	28	26	16	15	15	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	19	13	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	11	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°	895	895	895
5°	892	872	870
10°	888	850	845
15°	887	834	823
20°	877	808	800
25°	871	790	775
30°	862	772	749
35°	853	749	723
40°	838	721	696
45°	832	689	665
50°	809	660	629
55°	801	627	608
60°	771	595	579
65°	722	562	547
70°	673	518	558
75°	590	506	552
80°	484	503	560
85°	238	497	561



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	23.6	0.4	0.4
10°-20°	67.9	1.3	1.1
20°-30°	104.0	1.9	1.7
30°-40°	127.2	2.3	2.1
40°-50°	134.5	2.5	2.2
50°-60°	126.0	2.3	2.1
60°-70°	103.9	1.9	1.7
70°-80°	77.7	1.4	1.3
80°-90°	50.5	0.9	0.8
90°-100°	203.1	3.7	3.4
100°-110°	521.7	9.6	8.7
110°-120°	689.2	12.7	11.5
120°-130°	754.2	13.9	12.6
130°-140°	747.3	13.8	12.5
140°-150°	677.4	12.5	11.3
150°-160°	546.4	10.1	9.1
160°-170°	355.4	6.5	5.9
170°-180°	123.0	2.3	2.0
0°-30°	195.5	3.6	3.3
0°-40°	322.7	5.9	5.4
0°-60°	583.3	10.7	9.7
0°-90°	815.4	15.0	13.6
90°-120°	1414.0	26.0	23.6
90°-150°	3592.8	66.1	59.9
90°-180°	4618.0	85.0	77.0
0°-180°	5432.9	100.0	90.5

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	249	249	249	249	249	
5°	249	248	248	247	248	24
15°	243	240	241	240	241	68
25°	226	225	226	225	226	104
35°	203	202	205	204	204	127
45°	174	174	174	174	175	134
55°	139	139	140	142	144	124
65°	96	100	106	107	110	96
75°	52	61	75	87	89	56
85°	10	31	51	64	66	13
90°	0	23	44	58	59	3
95°	47	151	206	216	227	58
105°	245	372	545	625	656	260
115°	468	532	729	851	886	464
125°	683	700	843	961	1015	610
135°	875	896	956	1042	1078	674
145°	1036	1058	1078	1117	1133	648
155°	1164	1169	1188	1198	1205	536
165°	1251	1251	1261	1262	1268	353
175°	1295	1292	1296	1290	1294	123
180°	1296	1296	1296	1296	1296	



TEST NUMBER: 16857
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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	249.4	249.4	249.4	249.4	249.4
2.5°	249.5	248.1	247.7	248.1	248.1
5°	249.0	247.7	248.1	247.1	248.5
7.5°	248.1	246.7	247.2	246.2	246.2
10°	246.4	245.4	244.9	244.4	245.7
12.5°	242.7	242.2	242.7	243.1	243.1
15°	242.7	240.3	241.3	239.9	241.3
17.5°	237.7	237.7	236.8	237.2	238.6
20°	235.0	233.6	233.3	234.1	235.0
22.5°	230.0	229.6	230.9	230.9	230.5
25°	226.3	225.1	225.6	225.1	226.3
27.5°	221.4	220.5	220.5	220.2	221.5
30°	215.6	214.6	216.4	215.1	215.6
32.5°	209.7	208.3	210.1	209.7	210.1
35°	203.2	202.4	204.6	204.2	203.7
37.5°	196.4	195.6	196.4	196.1	198.4
40°	188.4	188.8	190.1	190.1	190.2
42.5°	182.1	181.6	183.8	182.5	182.8
45°	174.3	173.9	173.9	173.8	174.7
47.5°	166.6	165.3	167.1	166.6	167.5
50°	155.8	156.7	157.6	157.5	157.5
52.5°	147.6	148.1	150.4	151.3	150.4
55°	139.4	139.1	140.4	142.3	143.5
57.5°	128.7	130.4	132.1	135.4	135.4
60°	119.0	120.0	123.1	126.0	127.3
62.5°	107.3	110.5	114.5	117.3	114.6
65°	96.4	100.5	105.9	107.3	110.5
67.5°	86.4	90.5	96.9	102.7	105.6
70°	75.2	79.6	87.3	97.4	101.9
72.5°	65.3	70.2	80.1	91.5	95.6
75°	52.5	61.2	74.7	87.4	89.3
77.5°	42.0	51.2	70.2	80.5	85.1
80°	31.7	43.0	63.0	75.2	78.3
82.5°	19.9	35.4	56.1	68.9	72.4
85°	9.9	30.8	50.7	63.9	65.6
87.5°	2.2	22.3	44.8	57.5	60.7
90°	0.5	23.2	43.8	57.7	59.3
92.5°	15.5	74.3	98.3	105.1	115.5
95°	47.1	150.7	205.6	215.5	226.8
97.5°	89.1	220.9	322.4	340.1	350.4
100°	138.6	298.3	409.8	489.4	478.1
102.5°	189.7	322.9	477.1	532.0	589.1
105°	244.9	372.2	545.1	624.9	656.0
107.5°	302.0	412.5	605.8	692.4	721.3
110°	360.5	449.7	655.6	752.9	784.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	416.1	491.2	698.2	805.1	837.6
115°	467.8	531.7	728.9	851.2	885.7
117.5°	523.9	574.1	757.0	892.9	927.2
120°	577.8	618.9	785.6	924.1	967.5
122.5°	631.3	677.9	814.1	951.3	996.2
125°	683.2	700.0	842.7	960.8	1015.2
127.5°	734.0	756.5	871.6	985.3	1032.4
130°	782.0	805.0	898.4	1005.7	1048.7
132.5°	829.4	851.7	928.2	1023.8	1064.1
135°	875.2	895.6	955.8	1041.8	1078.5
137.5°	917.3	934.1	984.3	1058.1	1092.1
140°	960.0	976.7	1015.1	1075.3	1105.7
142.5°	998.8	1014.7	1043.7	1092.6	1117.5
145°	1036.4	1058.1	1078.0	1117.0	1132.9
147.5°	1071.7	1074.6	1108.9	1126.6	1148.7
150°	1105.2	1113.0	1137.4	1152.8	1165.9
152.5°	1134.8	1141.9	1164.5	1175.4	1184.5
155°	1163.7	1168.6	1188.5	1197.7	1204.8
157.5°	1188.5	1193.1	1211.3	1217.6	1224.4
160°	1212.1	1213.1	1230.7	1234.8	1241.1
162.5°	1232.9	1233.8	1245.6	1250.2	1256.0
165°	1250.6	1251.1	1261.1	1262.3	1268.3
167.5°	1265.5	1268.3	1272.8	1274.1	1276.8
170°	1278.6	1272.3	1282.8	1278.1	1284.2
172.5°	1287.3	1284.9	1289.5	1285.9	1290.0
175°	1295.1	1291.9	1295.5	1290.0	1293.7
177.5°	1298.2	1294.6	1297.2	1291.7	1295.0
180°	1296.3	1296.3	1296.3	1296.3	1296.3

(END OF REPORT)