

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: 26357

Luminaire Tested: **I2-WF-2T5-1C-UNV-04**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 26357
Test Lab: LIGHTING SCIENCES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: I2-WF-2T5-1C-UNV-04
Description: WITH WHITE INTERIOR AND 30 CELL WHITE PERF BAFFLE

Light Source: TWO PHILIPS 54 WATT T5 LAMPS
F54T5/835HO. LUMEN RATING = 4500 LMS.

Ballast/Driver: -

Summary

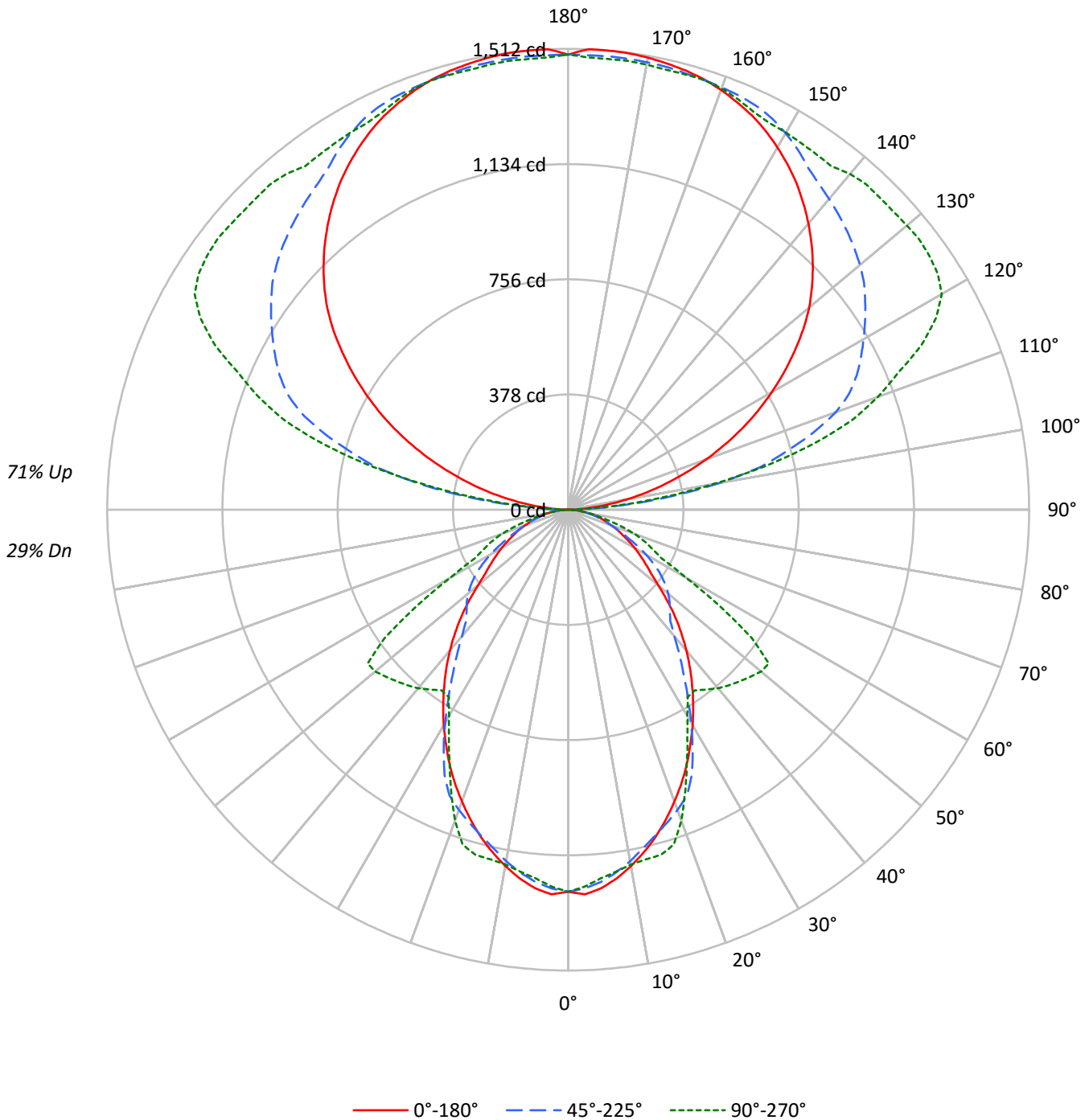
Lumens per Lamp: 4500 (2 lamps)
Luminaire Lumens: 8532.8 lumens
Efficiency: 94.8%
Efficacy: 72.7 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1 / 1.07
Luminous Opening: Rectangular (W 0.31' x L: 3.67' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 117.4
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: I2-WF-2T5-1C-UNV-04

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	50	30	10	0	
RCR																						
0	97	97	97	97	87	87	87	87	68	68	68	51	51	51	35	35	35	28				
1	89	85	81	78	79	76	73	71	60	58	56	45	44	43	31	31	30	24				
2	81	74	69	64	72	67	62	58	53	50	47	40	38	36	28	27	26	20				
3	74	65	59	53	66	59	53	49	47	43	40	35	33	31	25	23	22	18				
4	68	58	51	45	60	52	46	41	42	37	34	32	29	26	22	21	19	15				
5	62	51	44	39	55	47	40	36	37	33	29	28	25	23	20	18	17	13				
6	57	46	39	34	51	42	35	31	33	29	25	26	23	20	18	16	15	12				
7	53	42	34	29	47	38	31	27	30	26	22	23	20	18	17	15	13	11				
8	49	38	31	26	44	34	28	24	28	23	20	21	18	16	16	14	12	10				
9	45	34	28	23	41	31	25	21	25	21	18	20	17	14	14	12	11	9				
10	42	31	25	21	38	29	23	19	23	19	16	18	15	13	13	11	10	8				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11860	11860	11860
5°	11838	11645	11534
10°	11404	11247	11356
15°	10876	10834	11484
20°	10259	10556	10922
25°	9610	10018	9609
30°	8916	8808	8536
35°	8191	7626	8356
40°	7454	6697	9442
45°	6628	6306	10649
50°	5665	6304	12152
55°	5115	6103	12125
60°	4780	5590	8462
65°	4421	4771	6812
70°	4174	4202	6401
75°	4120	3813	5041
80°	3863	3460	4059
85°	3267	3495	3257



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	115.6	1.4	1.3
10°-20°	315.6	3.7	3.5
20°-30°	425.4	5.0	4.7
30°-40°	436.6	5.1	4.9
40°-50°	438.2	5.1	4.9
50°-60°	390.9	4.6	4.3
60°-70°	232.0	2.7	2.6
70°-80°	120.6	1.4	1.3
80°-90°	36.3	0.4	0.4
90°-100°	201.4	2.4	2.2
100°-110°	694.6	8.1	7.7
110°-120°	980.7	11.5	10.9
120°-130°	1056.8	12.4	11.7
130°-140°	999.8	11.7	11.1
140°-150°	859.5	10.1	9.6
150°-160°	666.7	7.8	7.4
160°-170°	419.6	4.9	4.7
170°-180°	142.4	1.7	1.6
0°-30°	856.7	10.0	9.5
0°-40°	1293.2	15.2	14.4
0°-60°	2122.4	24.9	23.6
0°-90°	2511.3	29.4	27.9
90°-120°	1876.7	22.0	20.9
90°-150°	4792.8	56.2	53.3
90°-180°	6022.0	70.6	66.9
0°-180°	8532.8	100.0	94.8

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1254	1254	1254	1254	1254	
5°	1246	1232	1226	1227	1214	117
15°	1110	1091	1106	1156	1172	311
25°	921	908	960	926	920	423
35°	709	718	660	662	724	443
45°	495	487	471	660	796	381
55°	310	300	370	611	735	279
65°	198	192	213	253	304	198
75°	113	100	104	120	138	117
85°	30	28	32	33	30	33
90°	0	8	12	11	1	5
95°	73	182	192	180	165	85
105°	332	518	742	831	831	353
115°	629	760	1044	1235	1278	621
125°	907	988	1189	1372	1448	810
135°	1135	1186	1293	1411	1446	875
145°	1306	1328	1371	1414	1422	817
155°	1427	1428	1462	1453	1440	658
165°	1492	1478	1483	1480	1479	422
175°	1512	1496	1493	1486	1484	144
180°	1494	1494	1494	1494	1494	



TEST NUMBER: 26357

CATALOG NUMBER: I2-WF-2T5-1C-UNV-04

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1253.5	1253.5	1253.5	1253.5	1253.5
2.5°	1263.1	1250.2	1243.6	1245.6	1237.7
5°	1246.5	1232.0	1226.1	1226.7	1214.5
7.5°	1220.2	1204.9	1200.8	1204.2	1197.8
10°	1187.0	1169.8	1170.7	1181.9	1182.0
12.5°	1150.4	1131.0	1136.8	1167.6	1175.2
15°	1110.4	1091.0	1106.1	1155.5	1172.5
17.5°	1065.9	1047.7	1076.9	1139.2	1151.8
20°	1018.9	1002.8	1048.4	1089.9	1084.8
22.5°	970.9	955.4	1016.1	1009.0	1002.0
25°	920.6	908.0	959.7	925.9	920.5
27.5°	868.2	861.1	884.1	847.4	846.5
30°	816.1	812.8	806.2	774.3	781.3
32.5°	763.3	765.2	730.3	709.4	728.9
35°	709.2	717.7	660.3	662.2	723.5
37.5°	656.4	668.2	598.5	653.6	743.8
40°	603.5	611.3	542.2	659.4	764.5
42.5°	549.0	549.2	495.7	661.7	781.4
45°	495.4	487.2	471.3	660.3	795.9
47.5°	439.7	429.3	451.4	655.9	810.8
50°	384.9	378.3	428.3	649.2	825.6
52.5°	341.5	335.3	400.8	640.8	829.3
55°	310.1	299.9	370.0	610.8	735.1
57.5°	279.6	268.9	333.7	518.8	589.9
60°	252.6	241.6	295.4	410.7	447.2
62.5°	224.4	216.2	252.9	315.1	344.1
65°	197.5	192.1	213.1	253.2	304.3
67.5°	175.3	169.3	180.5	219.1	270.7
70°	150.9	144.9	151.9	186.0	231.4
72.5°	129.6	121.6	127.3	151.6	182.4
75°	112.7	99.9	104.3	119.9	137.9
77.5°	91.5	80.5	83.2	92.5	101.9
80°	70.9	61.9	63.5	69.4	74.5
82.5°	50.4	44.3	46.5	49.6	50.3
85°	30.1	28.5	32.2	33.0	30.0
87.5°	12.1	16.5	20.9	20.0	12.3
90°	0.2	7.5	12.1	10.8	1.2
92.5°	22.1	63.0	64.7	55.1	45.4
95°	73.3	181.6	192.4	179.7	165.4
97.5°	130.6	295.9	344.1	329.0	320.1
100°	195.2	386.6	501.8	498.3	483.6
102.5°	263.1	461.5	644.4	670.5	663.9
105°	332.3	518.5	742.5	830.8	831.0
107.5°	406.2	575.6	844.0	947.9	976.3
110°	480.2	636.4	934.2	1037.5	1079.7



TEST NUMBER: 26357

CATALOG NUMBER: I2-WF-2T5-1C-UNV-04

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	553.7	699.4	998.5	1142.5	1170.4
115°	629.0	760.4	1044.3	1235.3	1278.4
117.5°	700.9	819.2	1082.5	1299.3	1359.4
120°	770.6	877.7	1118.8	1336.0	1414.7
122.5°	839.5	933.8	1154.8	1357.0	1437.7
125°	906.6	987.6	1189.3	1372.0	1447.6
127.5°	971.8	1041.5	1222.7	1381.9	1453.4
130°	1032.0	1093.1	1249.0	1391.2	1450.4
132.5°	1085.3	1141.2	1272.5	1401.7	1447.2
135°	1134.7	1186.0	1293.2	1410.7	1446.5
137.5°	1181.7	1222.8	1313.0	1410.8	1447.3
140°	1225.7	1257.8	1331.4	1408.1	1438.4
142.5°	1267.3	1293.5	1348.9	1404.0	1419.7
145°	1306.4	1328.0	1370.7	1414.2	1421.7
147.5°	1341.4	1358.4	1401.5	1422.7	1425.1
150°	1372.7	1384.6	1426.1	1428.3	1428.7
152.5°	1402.0	1407.8	1447.6	1436.2	1429.9
155°	1426.8	1427.6	1461.9	1453.2	1440.0
157.5°	1447.1	1444.5	1469.4	1467.2	1457.1
160°	1465.8	1457.8	1474.2	1478.8	1471.0
162.5°	1480.6	1469.1	1478.6	1481.7	1478.6
165°	1491.6	1478.4	1482.6	1480.1	1479.0
167.5°	1499.3	1485.4	1488.3	1479.9	1478.8
170°	1506.3	1490.9	1490.3	1481.2	1482.6
172.5°	1510.7	1495.2	1492.5	1483.6	1485.5
175°	1512.2	1496.3	1493.4	1485.5	1484.3
177.5°	1512.0	1496.0	1492.5	1484.7	1485.1
180°	1493.5	1493.5	1493.5	1493.5	1493.5

(END OF REPORT)