

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: 20542

Luminaire Tested: **IQ-WB-2T5**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 20542
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: IQ-WB-2T5
Description: DIRECT/INDIRECT SUSPENDED LUMINAIRE WITH WHITE INTERIOR WITH 36 CELL
WHITE PERF LOUVER
Light Source: TWO SYLVANIA 54 WATT T5 LAMPS

FP54/841/HO. LUMEN RATING = 4500 LMS.

Ballast/Driver: -

Summary

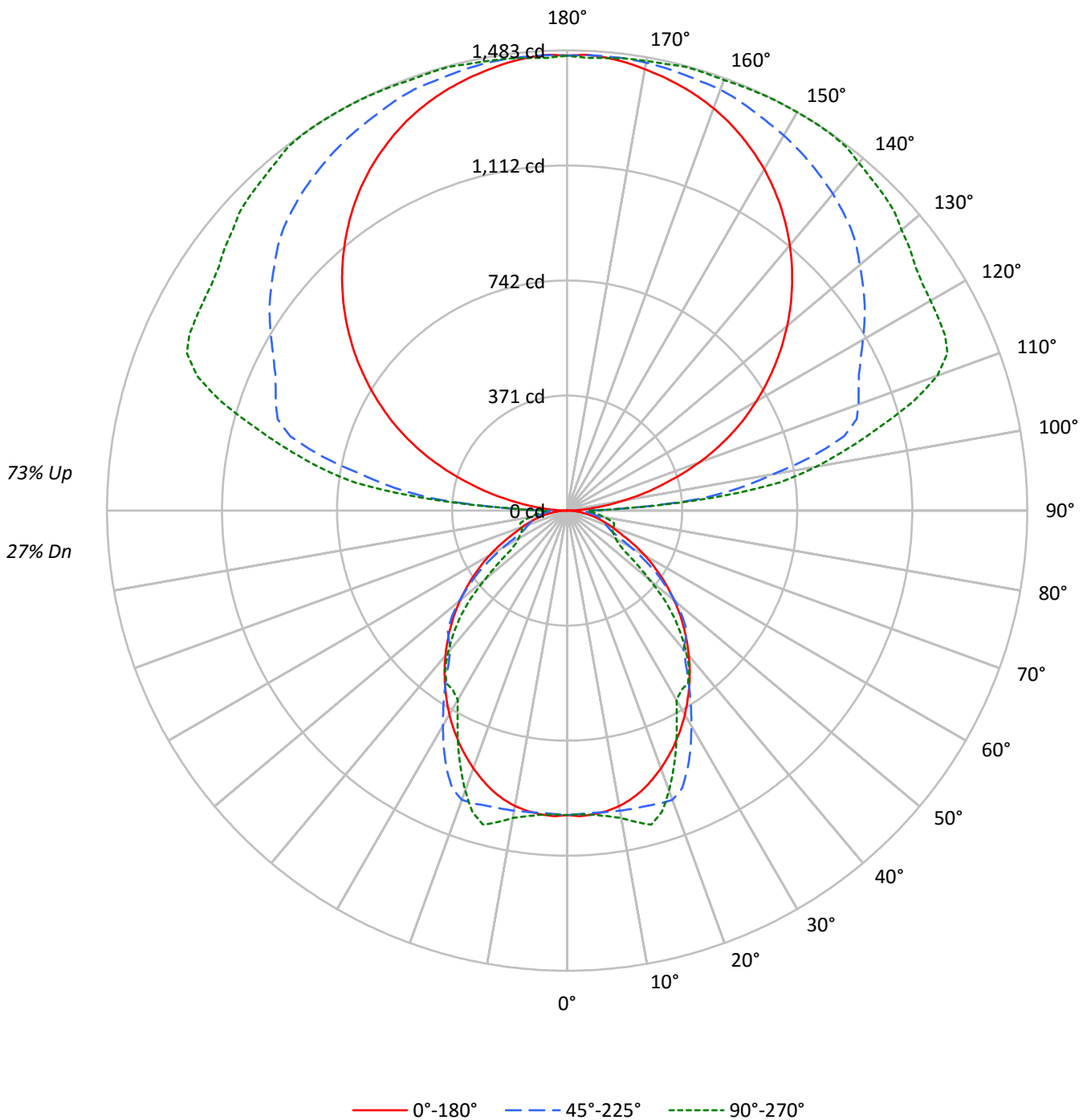
Lumens per Lamp: 4500 (2 lamps)
Luminaire Lumens: 8542.7 lumens
Efficiency: 94.9%
Efficacy: 73.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.1 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.32' x L: 3.67' x H: 0.06')
CIE Type: Semi-Indirect

Input Watts (W): 117
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





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	0														
RCR																																						
0	96	96	96	96	86	86	86	86	67	67	67	49	49	49	33	33	33	25																				
1	88	84	80	77	78	75	72	69	59	57	55	43	42	41	29	29	28	22																				
2	80	73	68	63	71	66	61	57	51	48	46	38	36	34	26	25	24	18																				
3	73	65	58	53	65	58	53	48	46	42	39	34	31	29	23	22	20	16																				
4	67	57	50	45	60	52	45	41	41	36	33	30	28	25	21	19	18	14																				
5	61	51	44	38	55	46	40	35	36	32	28	27	24	22	19	17	16	12																				
6	57	46	38	33	50	41	35	30	33	28	25	25	22	19	17	15	14	11																				
7	52	41	34	29	47	37	31	27	30	25	22	22	19	17	16	14	12	10																				
8	48	37	30	26	43	34	28	23	27	22	19	21	17	15	14	13	11	9																				
9	45	34	27	23	40	31	25	21	25	20	17	19	16	14	13	11	10	8																				
10	42	31	25	20	38	28	22	19	23	18	15	17	14	12	12	11	9	7																				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8991	8991	8991
5°	9028	8882	8909
10°	8975	8914	9060
15°	8819	9003	9468
20°	8569	9192	8772
25°	8279	8704	7734
30°	7956	7819	6730
35°	7592	6955	6712
40°	7202	6224	6177
45°	6776	6164	5335
50°	6302	5527	4035
55°	5749	4638	2799
60°	5161	3479	2503
65°	4408	2609	2506
70°	3908	2549	2787
75°	3555	2625	3263
80°	3188	2814	3093
85°	2587	2761	2961



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	93.7	1.1	1.0
10°-20°	277.4	3.2	3.1
20°-30°	398.0	4.7	4.4
30°-40°	435.7	5.1	4.8
40°-50°	407.5	4.8	4.5
50°-60°	290.7	3.4	3.2
60°-70°	188.5	2.2	2.1
70°-80°	129.2	1.5	1.4
80°-90°	71.8	0.8	0.8
90°-100°	374.7	4.4	4.2
100°-110°	834.8	9.8	9.3
110°-120°	999.3	11.7	11.1
120°-130°	1017.3	11.9	11.3
130°-140°	973.5	11.4	10.8
140°-150°	848.2	9.9	9.4
150°-160°	652.6	7.6	7.3
160°-170°	410.3	4.8	4.6
170°-180°	139.7	1.6	1.6
0°-30°	769.0	9.0	8.5
0°-40°	1204.7	14.1	13.4
0°-60°	1902.9	22.3	21.1
0°-90°	2292.3	26.8	25.5
90°-120°	2208.8	25.9	24.5
90°-150°	5047.8	59.1	56.1
90°-180°	6250.0	73.2	69.4
0°-180°	8542.7	100.0	94.9

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	981	981	981	981	981	
5°	983	977	978	983	984	93
15°	934	944	986	1035	1048	263
25°	825	863	918	861	832	380
35°	686	763	684	666	679	429
45°	531	567	544	510	489	410
55°	368	382	350	253	222	330
65°	210	243	158	160	162	212
75°	106	103	114	144	157	113
85°	29	44	70	83	88	31
90°	0	39	56	66	68	5
95°	71	282	425	468	470	82
105°	314	577	924	1018	1044	333
115°	584	767	1038	1267	1343	576
125°	818	956	1170	1320	1370	731
135°	1026	1116	1291	1400	1441	791
145°	1199	1256	1367	1450	1482	750
155°	1330	1358	1420	1465	1481	613
165°	1416	1424	1455	1475	1480	400
175°	1465	1457	1469	1467	1464	139
180°	1466	1466	1466	1466	1466	



TEST NUMBER: 20542
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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	981.0	981.0	981.0	981.0	981.0
2.5°	985.9	978.5	978.7	979.0	980.3
5°	982.7	976.8	977.6	982.9	984.2
7.5°	976.8	971.7	979.8	989.6	993.3
10°	967.1	966.1	982.1	998.3	1005.7
12.5°	952.6	957.0	983.8	1013.4	1028.0
15°	933.5	943.8	985.5	1035.0	1047.9
17.5°	909.9	926.8	990.3	1028.9	1017.0
20°	883.8	906.8	991.9	982.1	960.7
22.5°	855.4	885.4	968.3	923.8	897.5
25°	824.9	862.7	918.5	861.2	831.6
27.5°	792.7	840.5	860.9	796.5	764.9
30°	758.8	817.9	800.3	732.0	704.7
32.5°	722.8	793.1	741.5	676.7	685.4
35°	686.3	763.0	684.3	666.5	678.6
37.5°	648.9	720.0	629.0	655.9	645.9
40°	610.2	670.6	583.1	615.2	597.5
42.5°	570.9	618.7	564.4	564.5	544.2
45°	531.3	566.8	544.1	510.1	488.8
47.5°	491.4	516.8	502.8	454.0	424.8
50°	450.6	469.6	454.2	388.3	346.2
52.5°	409.9	423.8	402.0	315.8	280.3
55°	368.2	381.8	350.0	252.8	222.1
57.5°	328.6	347.3	293.3	202.7	194.3
60°	289.5	319.6	237.2	181.0	180.9
62.5°	249.6	284.7	189.0	169.4	170.6
65°	210.4	242.8	157.5	159.5	162.0
67.5°	176.1	201.1	143.8	151.4	157.9
70°	152.4	162.5	132.8	148.1	157.6
72.5°	128.8	129.6	122.9	146.2	158.7
75°	106.5	102.7	114.0	143.7	156.6
77.5°	85.1	84.5	106.6	132.9	139.3
80°	66.0	68.3	96.9	115.0	120.9
82.5°	47.6	55.1	81.9	98.9	104.6
85°	29.2	44.2	69.5	83.3	88.5
87.5°	10.0	33.1	56.7	69.4	74.4
90°	0.0	39.1	56.2	65.6	67.8
92.5°	25.2	160.1	209.7	208.2	204.8
95°	70.8	282.5	424.7	468.3	470.4
97.5°	125.6	412.5	560.0	661.1	689.2
100°	185.0	502.0	674.7	780.9	814.9
102.5°	248.6	539.5	811.1	891.2	928.2
105°	313.5	577.0	923.9	1017.8	1043.8
107.5°	382.5	620.6	977.9	1139.5	1169.5
110°	452.1	667.6	999.4	1221.6	1269.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	519.3	716.0	1016.6	1256.5	1326.5
115°	583.7	766.9	1037.7	1266.9	1343.0
117.5°	645.3	819.9	1067.0	1275.4	1347.9
120°	704.1	867.4	1100.6	1285.0	1352.4
122.5°	761.6	913.0	1136.4	1297.6	1358.2
125°	818.0	955.9	1170.3	1320.5	1370.5
127.5°	872.7	997.4	1200.7	1342.0	1390.9
130°	925.8	1038.4	1231.1	1368.2	1406.9
132.5°	976.3	1077.7	1264.4	1385.8	1429.6
135°	1025.6	1115.5	1291.3	1400.0	1441.1
137.5°	1072.1	1151.5	1312.3	1415.9	1450.6
140°	1116.5	1187.5	1332.4	1434.6	1462.8
142.5°	1158.8	1222.6	1350.0	1445.0	1477.2
145°	1199.0	1256.4	1366.6	1450.5	1482.0
147.5°	1235.9	1285.7	1382.1	1455.1	1482.6
150°	1270.5	1311.4	1396.1	1459.2	1482.7
152.5°	1301.8	1334.8	1407.7	1462.8	1482.2
155°	1330.5	1357.6	1420.2	1465.0	1481.1
157.5°	1356.9	1378.0	1433.6	1465.0	1479.1
160°	1379.6	1395.5	1443.8	1468.8	1476.8
162.5°	1399.6	1410.6	1448.3	1474.4	1478.3
165°	1416.5	1423.9	1454.6	1474.7	1480.2
167.5°	1431.4	1434.2	1461.0	1472.1	1474.1
170°	1444.5	1443.4	1465.8	1472.6	1471.3
172.5°	1456.4	1450.8	1468.8	1471.0	1469.2
175°	1465.1	1457.1	1468.9	1467.3	1463.9
177.5°	1470.3	1461.9	1469.0	1463.2	1459.9
180°	1466.1	1466.1	1466.1	1466.1	1466.1

(END OF REPORT)