

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: 20702

Luminaire Tested: **IQ-WB-2T5-DL1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 20702  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: IQ-WB-2T5-DL1  
Description: WHITE INTERIOR WITH WHITE PERF LOUVER AND SLIDE N LOCK WHITE REFLECTORS  
Light Source: TWO SYLVANIA 54 WATT T5 LAMPS  
  
FP54/841/HO. LUMEN RATING = 4500 LMS.  
  
Ballast/Driver: -

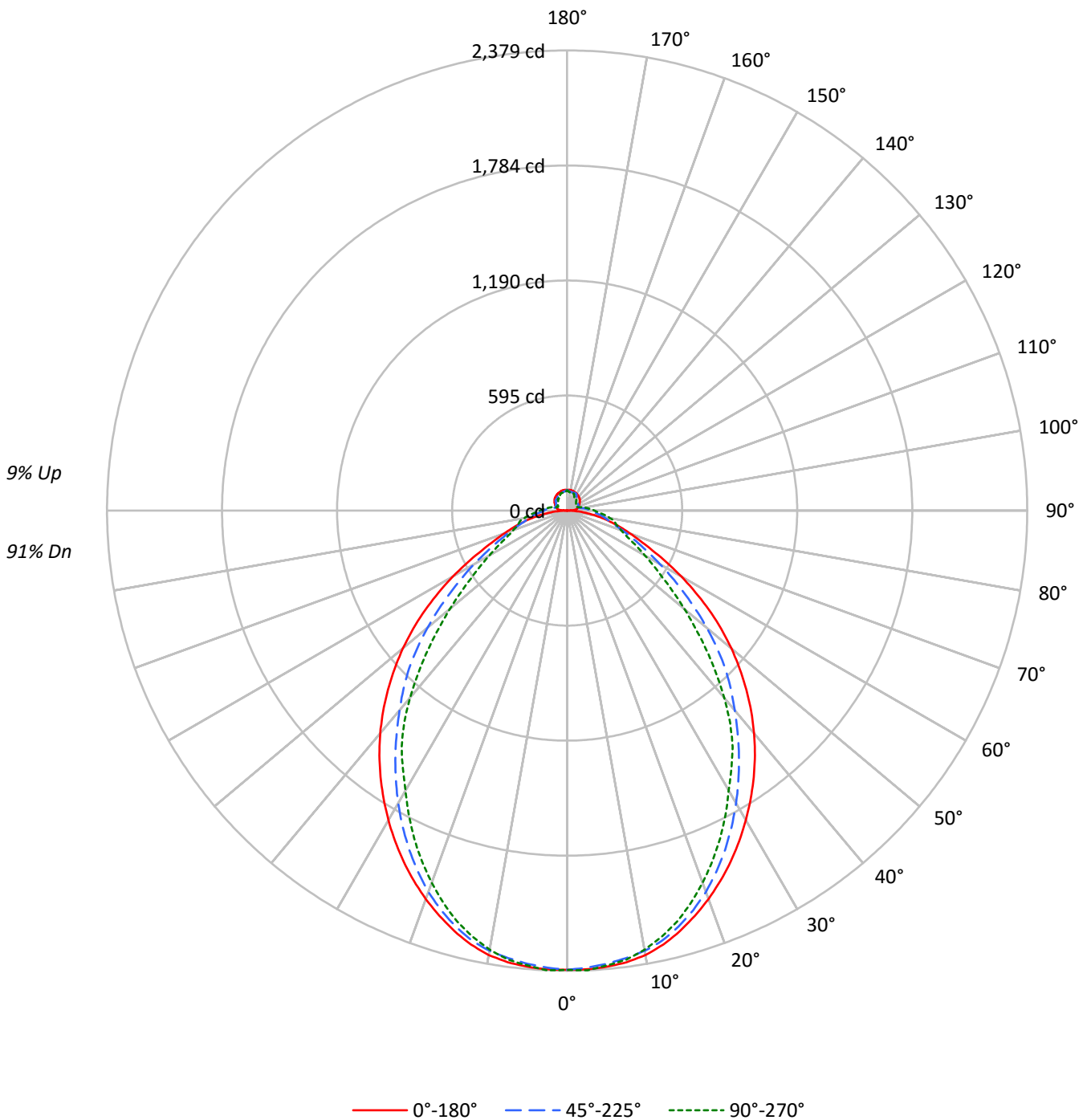
**Summary**

Lumens per Lamp: 4500 (2 lamps)  
Luminaire Lumens: 5607.3 lumens  
Efficiency: 62.3%  
Efficacy: 52.4 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.08 / 1.2  
Luminous Opening: Rectangular w/ Sides (W: 0.32' x L: 3.67' x H: 0.06')  
CIE Type: Direct  
  
Input Watts (W): 107  
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	73	73	73	73	71	71	71	71	66	66	66	62	62	62	59	59	59	57
1	67	64	62	59	65	62	60	58	58	57	55	55	54	52	52	51	50	48
2	61	57	53	49	59	55	51	48	52	49	46	49	47	45	46	45	43	41
3	56	50	46	42	54	49	45	41	46	43	40	44	41	38	42	39	37	36
4	52	45	40	36	50	44	39	35	42	38	34	40	36	33	38	35	32	31
5	48	41	35	31	46	40	35	31	38	33	30	36	32	29	34	31	29	27
6	45	37	32	28	43	36	31	27	34	30	27	33	29	26	31	28	26	24
7	41	34	28	25	40	33	28	25	31	27	24	30	26	23	29	25	23	22
8	39	31	26	22	37	30	25	22	29	25	22	28	24	21	27	23	21	20
9	36	28	23	20	35	28	23	20	27	23	20	26	22	19	25	21	19	18
10	34	26	22	18	33	26	21	18	25	21	18	24	20	18	23	20	17	16

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	21762	21762	21762
5°	21750	21369	21368
10°	21650	20975	20768
15°	21270	20336	19872
20°	20718	19443	18690
25°	20087	18318	17396
30°	19377	17066	15956
35°	18606	15742	14756
40°	17750	14382	13063
45°	16707	13099	11112
50°	15503	11458	9216
55°	13983	9715	7582
60°	12143	8137	6429
65°	10183	6832	5585
70°	8856	5920	5239
75°	8044	5404	5392
80°	7183	5582	5794
85°	5954	5934	5962



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	223.7	4.0	2.5
10°-20°	625.2	11.1	6.9
20°-30°	889.8	15.9	9.9
30°-40°	979.8	17.5	10.9
40°-50°	892.7	15.9	9.9
50°-60°	669.8	11.9	7.4
60°-70°	429.1	7.7	4.8
70°-80°	261.0	4.7	2.9
80°-90°	150.7	2.7	1.7
90°-100°	95.4	1.7	1.1
100°-110°	67.3	1.2	0.7
110°-120°	62.4	1.1	0.7
120°-130°	62.1	1.1	0.7
130°-140°	62.0	1.1	0.7
140°-150°	54.7	1.0	0.6
150°-160°	44.0	0.8	0.5
160°-170°	28.1	0.5	0.3
170°-180°	9.7	0.2	0.1
0°-30°	1738.6	31.0	19.3
0°-40°	2718.4	48.5	30.2
0°-60°	4280.9	76.3	47.6
0°-90°	5121.7	91.3	56.9
90°-120°	225.1	4.0	2.5
90°-150°	403.9	7.2	4.5
90°-180°	486.0	8.7	5.4
0°-180°	5607.3	100.0	62.3

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2374	2374	2374	2374	2374	
5°	2367	2354	2352	2359	2361	225
15°	2251	2236	2226	2211	2200	634
25°	2001	1977	1933	1900	1871	921
35°	1682	1634	1549	1510	1492	1051
45°	1310	1255	1156	1062	1018	1009
55°	896	864	733	635	602	800
65°	486	496	412	376	361	491
75°	241	233	235	253	259	257
85°	67	98	149	175	178	71
90°	0	62	120	141	141	6
95°	40	58	101	117	113	34
105°	57	56	62	65	65	60
115°	68	70	64	58	54	67
125°	80	75	69	62	56	71
135°	90	90	81	74	64	70
145°	96	94	85	82	76	60
155°	102	94	99	96	86	47
165°	106	98	97	100	95	30
175°	108	104	100	99	98	10
180°	105	105	105	105	105	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2374.4	2374.4	2374.4	2374.4	2374.4
2.5°	2373.7	2361.6	2364.8	2374.4	2379.4
5°	2367.4	2353.7	2351.9	2359.0	2360.6
7.5°	2355.1	2338.5	2333.4	2339.2	2341.3
10°	2333.0	2315.6	2311.0	2308.2	2305.2
12.5°	2298.0	2281.4	2276.7	2263.2	2256.8
15°	2251.4	2235.9	2225.9	2211.1	2199.5
17.5°	2196.8	2182.0	2166.5	2143.6	2126.8
20°	2136.8	2120.7	2098.0	2068.5	2047.0
22.5°	2071.8	2051.9	2018.9	1987.7	1961.8
25°	2001.4	1976.9	1933.1	1900.0	1870.6
27.5°	1926.6	1896.9	1841.8	1805.5	1772.7
30°	1848.2	1813.0	1746.7	1703.0	1670.9
32.5°	1766.2	1725.4	1648.6	1600.9	1580.4
35°	1681.9	1634.3	1548.9	1509.6	1491.9
37.5°	1594.9	1541.0	1447.0	1415.8	1383.7
40°	1503.9	1446.3	1347.4	1304.8	1263.6
42.5°	1408.5	1350.7	1253.2	1184.6	1140.2
45°	1310.0	1255.0	1156.2	1062.5	1018.0
47.5°	1210.3	1157.8	1050.1	943.0	898.8
50°	1108.4	1059.7	941.6	829.1	790.8
52.5°	1003.2	961.6	835.4	727.0	690.8
55°	895.5	863.6	733.1	635.1	601.5
57.5°	787.5	766.9	640.6	553.4	527.6
60°	681.2	672.5	554.7	484.5	464.6
62.5°	579.4	580.4	477.7	426.6	410.0
65°	486.0	496.5	412.4	376.2	361.1
67.5°	407.8	420.0	356.2	332.3	323.2
70°	345.3	349.1	308.4	298.1	296.2
72.5°	292.2	286.1	267.4	273.5	274.9
75°	241.0	233.0	234.7	253.4	258.8
77.5°	192.8	186.9	211.4	240.5	249.5
80°	148.7	149.0	192.2	222.4	226.5
82.5°	108.3	119.9	171.9	198.5	202.2
85°	67.2	98.0	149.4	174.7	178.2
87.5°	24.4	77.0	128.9	153.3	155.5
90°	0.0	61.6	119.9	141.3	141.2
92.5°	19.0	62.9	112.3	130.8	127.9
95°	40.1	58.4	100.7	117.4	113.1
97.5°	47.6	53.9	88.0	105.7	101.7
100°	52.0	54.4	73.5	93.7	91.3
102.5°	54.3	55.2	65.2	79.4	79.8
105°	56.7	56.4	62.0	65.3	64.6
107.5°	59.0	59.0	61.0	62.3	57.9
110°	62.0	61.4	62.4	56.6	53.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	65.4	66.6	62.9	57.0	51.5
115°	68.1	70.1	63.9	58.1	53.5
117.5°	70.8	71.7	65.2	58.3	54.5
120°	73.6	73.0	66.3	58.7	54.9
122.5°	76.8	73.9	67.5	59.8	55.5
125°	79.9	75.2	69.2	61.6	56.5
127.5°	82.7	78.2	74.3	63.4	58.0
130°	85.3	83.1	78.2	65.4	59.6
132.5°	88.0	87.6	79.8	67.8	61.5
135°	90.2	90.1	80.9	73.8	64.0
137.5°	91.9	91.7	81.2	78.5	70.3
140°	93.3	92.6	81.5	80.6	74.4
142.5°	94.7	93.4	82.3	81.6	75.8
145°	96.0	94.1	85.4	82.1	76.1
147.5°	97.5	94.3	91.5	82.5	76.3
150°	99.1	93.9	96.2	84.0	76.8
152.5°	100.4	93.7	98.2	88.8	79.4
155°	101.8	94.4	98.7	96.3	85.5
157.5°	103.1	95.6	99.0	99.6	92.6
160°	104.2	96.7	98.8	100.6	94.9
162.5°	105.4	97.7	97.4	100.8	95.6
165°	106.4	98.3	97.2	99.8	95.4
167.5°	106.9	98.8	98.5	98.1	93.7
170°	107.4	99.3	99.1	98.9	94.5
172.5°	107.8	100.8	99.5	99.1	96.0
175°	108.1	104.4	100.2	99.4	97.5
177.5°	108.2	106.6	104.5	102.5	100.9
180°	104.7	104.7	104.7	104.7	104.7

(END OF REPORT)