

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: 20705

Luminaire Tested: **IQ-WB-2T5-DL4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 20705  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: IQ-WB-2T5-DL4  
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: -

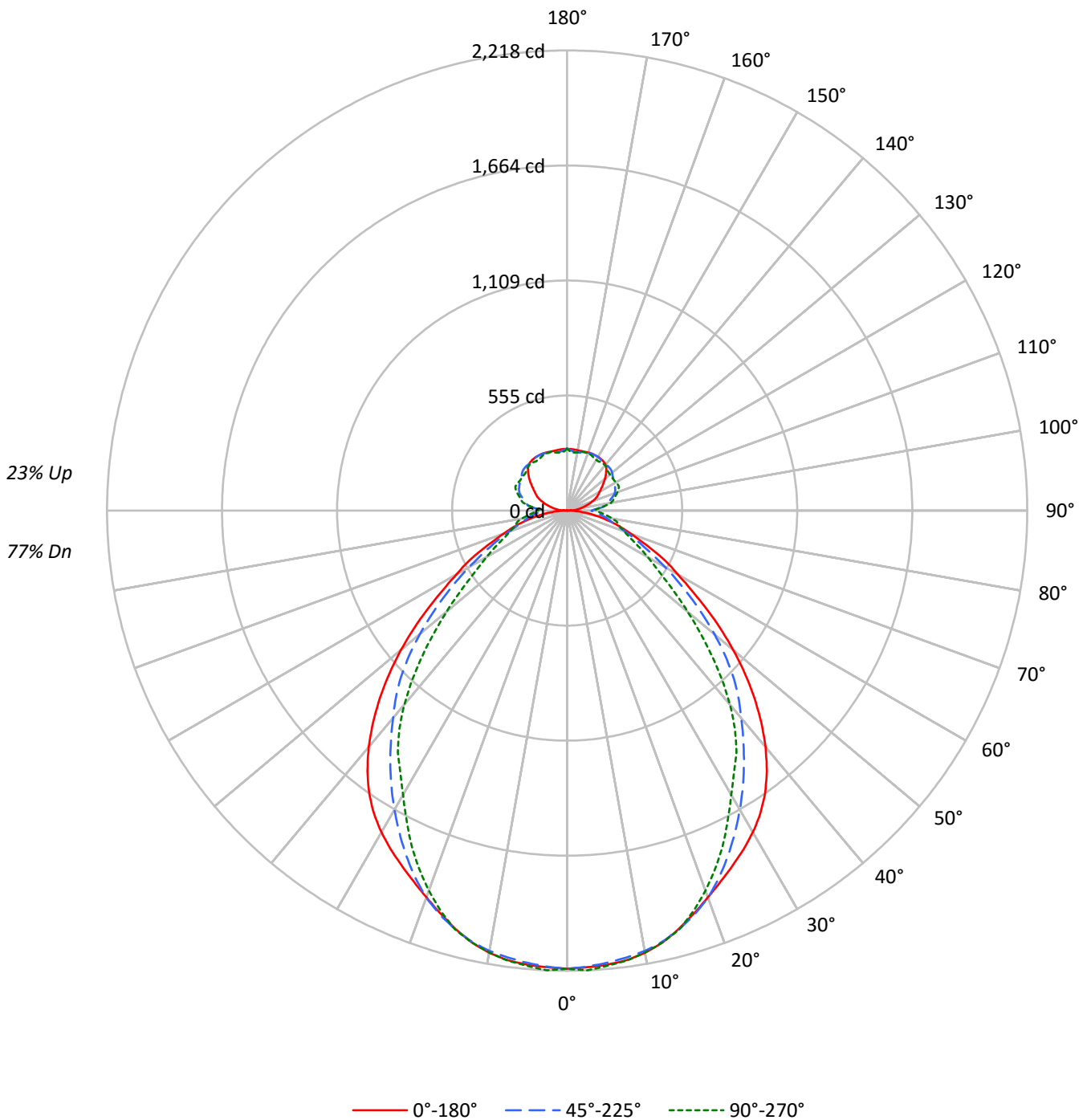
**Summary**

Lumens per Lamp: 4500 (2 lamps)  
Luminaire Lumens: 6372.7 lumens  
Efficiency: 70.8%  
Efficacy: 56.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.09 / 1.22  
Luminous Opening: Rectangular w/ Sides (W: 0.32' x L: 3.67' x H: 0.06')  
CIE Type: Semi-Direct  
  
Input Watts (W): 112  
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	80	80	80	80	77	77	77	77	70	70	70	63	63	63	57	57	57	55
1	74	70	68	65	70	67	65	63	61	59	58	56	54	53	51	50	49	46
2	67	62	58	54	64	59	55	52	54	51	48	50	47	45	45	43	42	39
3	62	55	50	46	59	53	48	44	48	45	41	44	41	39	41	38	36	34
4	57	49	43	39	54	47	42	38	43	39	36	40	36	34	37	34	32	30
5	53	44	38	34	50	42	37	33	39	35	31	36	32	30	33	30	28	26
6	49	40	34	30	46	38	33	29	36	31	28	33	29	26	30	27	25	23
7	45	36	31	27	43	35	30	26	33	28	25	30	26	23	28	25	22	21
8	42	33	28	24	40	32	27	23	30	25	22	28	24	21	26	23	20	19
9	39	31	25	21	38	30	24	21	28	23	20	26	22	19	24	21	18	17
10	37	28	23	20	35	27	22	19	26	21	18	24	20	17	22	19	17	15

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

	0°	45°	90°
0°	20243	20243	20243
5°	20189	19884	19937
10°	20090	19559	19487
15°	19709	19077	18876
20°	19232	18398	17795
25°	18944	17389	16526
30°	18773	16266	15108
35°	18402	15106	14074
40°	17557	13934	12620
45°	16263	12833	10737
50°	14628	11277	8837
55°	12686	9578	7207
60°	10970	8011	6200
65°	9684	6688	5491
70°	8355	5772	5154
75°	7620	5264	5329
80°	6825	5442	5671
85°	5653	5751	5822



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	208.3	3.3	2.3
10°-20°	586.6	9.2	6.5
20°-30°	843.6	13.2	9.4
30°-40°	945.9	14.8	10.5
40°-50°	870.1	13.7	9.7
50°-60°	640.6	10.1	7.1
60°-70°	412.8	6.5	4.6
70°-80°	252.5	4.0	2.8
80°-90°	146.0	2.3	1.6
90°-100°	149.3	2.3	1.7
100°-110°	208.8	3.3	2.3
110°-120°	233.6	3.7	2.6
120°-130°	229.2	3.6	2.5
130°-140°	216.8	3.4	2.4
140°-150°	182.7	2.9	2.0
150°-160°	136.1	2.1	1.5
160°-170°	82.3	1.3	0.9
170°-180°	27.5	0.4	0.3
0°-30°	1638.4	25.7	18.2
0°-40°	2584.3	40.6	28.7
0°-60°	4095.0	64.3	45.5
0°-90°	4906.3	77.0	54.5
90°-120°	591.7	9.3	6.6
90°-150°	1220.5	19.2	13.6
90°-180°	1466.0	23.0	16.3
0°-180°	6372.7	100.0	70.8

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2209	2209	2209	2209	2209	
5°	2198	2187	2188	2199	2202	209
15°	2086	2077	2088	2095	2089	587
25°	1888	1867	1835	1804	1777	871
35°	1664	1608	1486	1428	1423	1035
45°	1275	1240	1133	1026	984	981
55°	812	824	723	602	572	731
65°	462	472	404	366	355	460
75°	228	223	229	250	256	243
85°	64	94	145	170	174	68
90°	0	60	117	139	139	6
95°	41	108	165	178	158	38
105°	97	156	219	244	234	102
115°	159	201	256	276	276	156
125°	208	234	271	277	269	186
135°	266	276	290	288	274	205
145°	296	292	292	289	284	185
155°	300	289	299	297	289	138
165°	295	282	288	297	293	84
175°	297	290	288	286	282	28
180°	298	298	298	298	298	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2208.6	2208.6	2208.6	2208.6	2208.6
2.5°	2203.3	2194.2	2200.0	2211.9	2218.1
5°	2197.5	2187.2	2188.5	2198.8	2202.5
7.5°	2186.0	2173.0	2173.2	2183.3	2188.2
10°	2164.8	2151.5	2155.0	2161.2	2163.1
12.5°	2131.2	2119.4	2127.8	2130.6	2131.3
15°	2086.2	2077.0	2088.1	2094.9	2089.2
17.5°	2035.1	2028.1	2041.8	2038.3	2024.3
20°	1983.5	1975.6	1985.2	1967.9	1948.9
22.5°	1934.4	1921.5	1914.3	1889.7	1866.8
25°	1887.5	1867.0	1835.0	1804.3	1777.0
27.5°	1840.9	1810.5	1751.1	1710.9	1678.3
30°	1790.6	1749.2	1664.8	1608.4	1582.1
32.5°	1732.9	1682.2	1576.4	1508.4	1496.1
35°	1663.5	1607.7	1486.3	1428.0	1423.0
37.5°	1581.5	1525.0	1394.4	1348.3	1328.5
40°	1487.5	1435.0	1305.5	1250.0	1220.7
42.5°	1384.5	1339.7	1222.3	1141.6	1104.0
45°	1275.2	1240.3	1132.8	1025.6	983.7
47.5°	1162.1	1137.5	1031.6	908.4	865.8
50°	1045.9	1032.9	926.7	795.5	758.2
52.5°	927.4	927.8	823.1	693.2	659.3
55°	812.4	824.4	722.8	602.3	571.8
57.5°	705.8	726.9	631.4	521.5	503.8
60°	615.4	640.0	546.1	460.6	448.1
62.5°	543.6	555.3	469.1	410.1	399.9
65°	462.2	472.1	403.7	365.5	355.0
67.5°	385.9	395.3	347.8	324.8	318.1
70°	325.8	326.1	300.7	291.5	291.4
72.5°	276.6	269.5	260.6	267.4	270.6
75°	228.3	222.8	228.6	249.9	255.8
77.5°	182.8	179.1	205.7	235.8	244.5
80°	141.3	142.6	187.4	216.5	221.7
82.5°	103.0	114.9	166.7	192.8	197.5
85°	63.8	94.0	144.8	169.5	174.0
87.5°	23.1	73.7	124.4	148.0	152.2
90°	0.2	59.6	117.3	139.0	139.1
92.5°	21.0	89.1	134.9	150.9	137.5
95°	41.4	108.3	164.9	177.8	158.3
97.5°	53.8	116.8	191.2	211.1	188.2
100°	66.7	133.4	198.8	234.5	214.5
102.5°	80.6	147.9	207.8	240.8	227.0
105°	96.9	156.3	219.0	244.5	233.8
107.5°	113.0	165.5	232.3	256.1	246.4
110°	129.0	175.8	244.4	262.6	257.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	145.7	188.3	250.7	272.1	268.6
115°	159.4	201.2	255.5	276.5	275.6
117.5°	169.6	210.2	260.3	276.6	274.7
120°	180.1	218.3	263.7	275.4	272.2
122.5°	192.9	225.6	267.0	275.6	269.1
125°	207.6	233.9	270.8	277.0	268.9
127.5°	223.2	244.0	276.3	278.0	269.6
130°	238.2	254.9	283.7	279.8	269.9
132.5°	252.3	266.1	287.9	282.7	271.2
135°	266.2	275.7	290.3	287.9	274.2
137.5°	278.9	283.0	290.9	292.5	281.1
140°	287.5	287.9	290.2	293.1	284.9
142.5°	292.9	291.0	290.3	291.9	285.3
145°	296.1	292.4	292.0	288.9	284.5
147.5°	297.8	292.6	295.6	287.4	281.0
150°	298.7	292.3	298.2	288.6	281.2
152.5°	299.4	291.0	298.7	292.3	283.3
155°	299.5	289.4	298.7	297.1	288.6
157.5°	298.8	287.5	297.8	298.9	292.8
160°	297.7	285.7	295.7	299.0	293.1
162.5°	296.2	283.9	291.7	299.2	293.2
165°	295.2	282.3	287.7	296.9	292.8
167.5°	294.6	281.4	286.0	291.2	287.5
170°	295.1	283.0	285.5	287.7	283.8
172.5°	296.1	286.3	285.3	286.3	282.0
175°	296.9	290.4	287.5	285.8	282.0
177.5°	297.4	295.1	293.9	291.1	286.6
180°	298.0	298.0	298.0	298.0	298.0

(END OF REPORT)