

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: 20704

Luminaire Tested: **IQ-WB-2T5-DL3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 20704  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: IQ-WB-2T5-DL3  
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: -

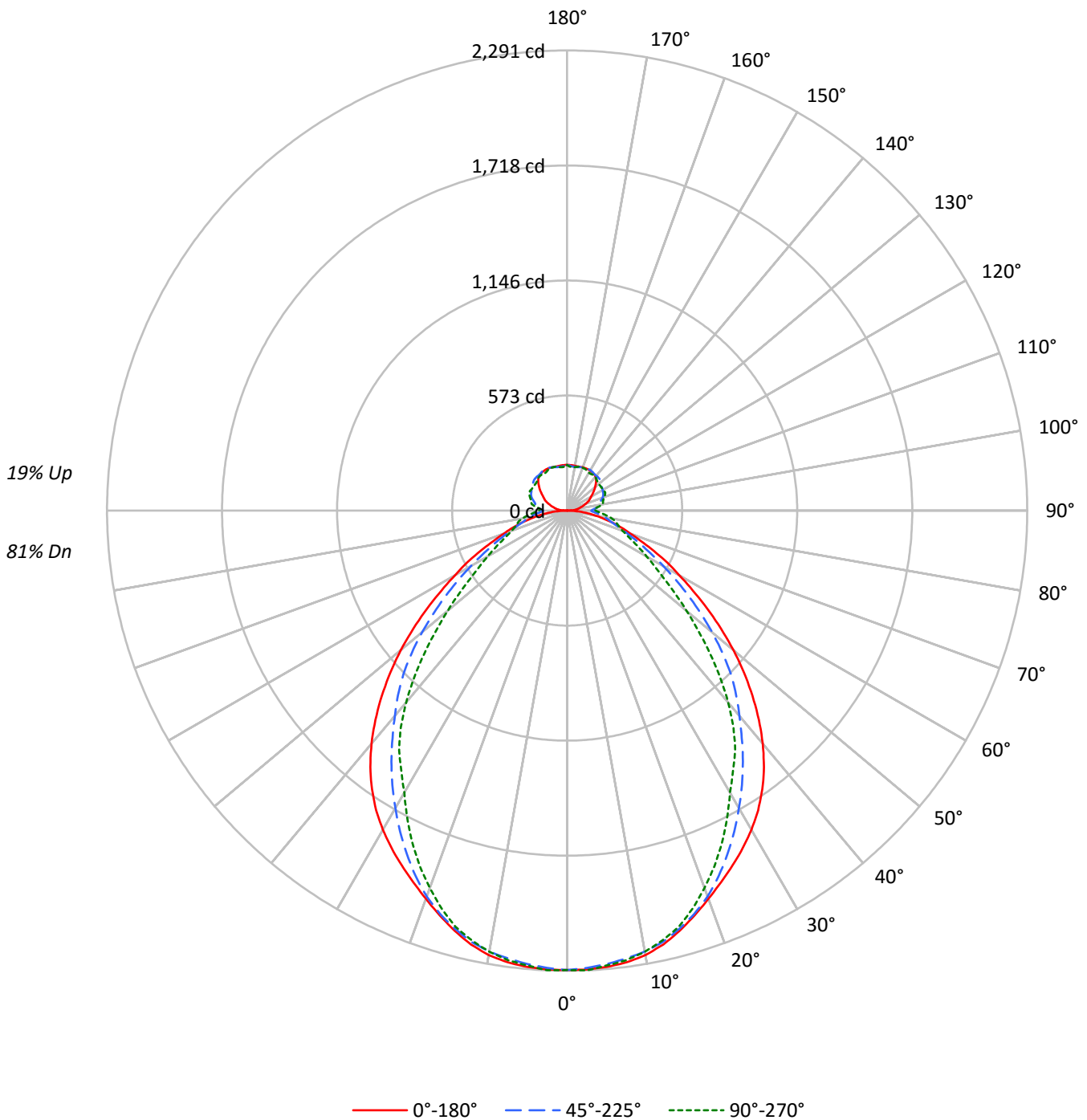
**Summary**

Lumens per Lamp: 4500 (2 lamps)  
Luminaire Lumens: 6184.4 lumens  
Efficiency: 68.7%  
Efficacy: 56.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.08 / 1.21  
Luminous Opening: Rectangular w/ Sides (W: 0.32' x L: 3.67' x H: 0.06')  
CIE Type: Semi-Direct  
  
Input Watts (W): 110  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	50	30	10	0	
RCR																						
0	79	79	79	79	75	75	75	75	69	69	69	64	64	64	58	58	58	56				
1	72	69	66	64	69	66	64	62	61	59	57	56	55	53	52	51	50	47				
2	66	61	57	53	63	59	55	51	54	51	48	50	48	45	46	44	42	40				
3	61	54	49	45	58	52	47	44	48	44	41	45	42	39	41	39	37	35				
4	56	48	43	39	53	47	41	38	43	39	36	40	37	34	37	35	32	30				
5	52	43	38	34	49	42	37	33	39	35	31	36	33	30	34	31	28	27				
6	48	39	34	30	46	38	33	29	36	31	28	33	29	26	31	28	25	24				
7	44	36	30	26	43	35	29	26	32	28	25	30	27	24	29	25	23	21				
8	41	33	27	24	40	32	27	23	30	25	22	28	24	21	26	23	21	19				
9	39	30	25	21	37	29	24	21	28	23	20	26	22	19	24	21	19	17				
10	36	28	23	19	35	27	22	19	26	21	18	24	20	18	23	19	17	16				

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

	0°	45°	90°
0°	20965	20965	20965
5°	20953	20592	20579
10°	20852	20234	20088
15°	20461	19698	19383
20°	19941	18952	18259
25°	19561	17893	16969
30°	19238	16718	15482
35°	18745	15507	14426
40°	17886	14241	12895
45°	16644	13061	10971
50°	15115	11462	9045
55°	13291	9731	7394
60°	11494	8126	6328
65°	9971	6796	5558
70°	8609	5864	5200
75°	7830	5360	5371
80°	7014	5544	5766
85°	5768	5859	5935



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	215.6	3.5	2.4
10°-20°	605.5	9.8	6.7
20°-30°	867.9	14.0	9.6
30°-40°	968.0	15.7	10.8
40°-50°	887.9	14.4	9.9
50°-60°	657.4	10.6	7.3
60°-70°	422.3	6.8	4.7
70°-80°	257.4	4.2	2.9
80°-90°	149.1	2.4	1.7
90°-100°	132.8	2.1	1.5
100°-110°	163.6	2.6	1.8
110°-120°	179.8	2.9	2.0
120°-130°	177.3	2.9	2.0
130°-140°	167.7	2.7	1.9
140°-150°	141.6	2.3	1.6
150°-160°	105.6	1.7	1.2
160°-170°	63.8	1.0	0.7
170°-180°	21.2	0.3	0.2
0°-30°	1689.0	27.3	18.8
0°-40°	2656.9	43.0	29.5
0°-60°	4202.3	67.9	46.7
0°-90°	5031.1	81.4	55.9
90°-120°	476.1	7.7	5.3
90°-150°	962.8	15.6	10.7
90°-180°	1153.0	18.6	12.8
0°-180°	6184.4	100.0	68.7

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2287	2287	2287	2287	2287	
5°	2281	2267	2266	2272	2273	217
15°	2166	2152	2156	2154	2145	610
25°	1949	1925	1888	1853	1825	899
35°	1694	1636	1526	1469	1459	1056
45°	1305	1261	1153	1049	1005	1004
55°	851	848	734	619	587	764
65°	476	488	410	371	359	476
75°	235	229	233	253	258	250
85°	65	97	148	173	177	69
90°	0	61	120	141	141	6
95°	39	92	146	161	143	35
105°	76	121	170	192	184	81
115°	120	155	198	214	209	118
125°	159	182	210	215	206	142
135°	204	213	226	223	210	157
145°	227	227	228	225	219	142
155°	230	226	232	231	224	106
165°	226	219	223	230	226	64
175°	227	223	222	220	218	22
180°	227	227	227	227	227	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2287.4	2287.4	2287.4	2287.4	2287.4
2.5°	2286.5	2274.5	2278.9	2287.1	2290.9
5°	2280.6	2266.8	2266.4	2272.4	2273.4
7.5°	2268.6	2251.8	2249.4	2255.1	2257.4
10°	2247.0	2229.1	2229.3	2230.7	2229.8
12.5°	2212.4	2195.6	2199.8	2194.7	2192.3
15°	2165.8	2151.6	2156.1	2153.8	2145.4
17.5°	2111.9	2100.7	2105.3	2093.6	2077.6
20°	2056.6	2044.8	2045.0	2021.3	1999.8
22.5°	2002.5	1986.1	1970.9	1941.0	1915.9
25°	1949.0	1924.6	1888.2	1853.2	1824.7
27.5°	1894.1	1859.3	1800.8	1758.0	1724.3
30°	1834.9	1790.3	1711.1	1653.7	1621.2
32.5°	1769.3	1716.5	1619.4	1552.6	1536.4
35°	1694.5	1635.6	1525.8	1469.0	1458.6
37.5°	1609.7	1548.4	1428.6	1385.2	1359.7
40°	1515.4	1456.3	1334.2	1281.6	1247.3
42.5°	1413.2	1360.1	1245.9	1168.2	1127.6
45°	1305.1	1261.3	1152.9	1049.0	1005.1
47.5°	1193.9	1159.5	1049.0	930.0	885.3
50°	1080.7	1056.1	941.9	815.7	776.1
52.5°	965.2	952.2	836.3	711.8	675.7
55°	851.2	848.2	734.3	618.6	586.6
57.5°	742.2	749.6	640.9	534.2	516.1
60°	644.8	659.6	554.0	470.1	457.3
62.5°	562.5	572.2	476.4	417.0	406.4
65°	475.9	487.7	410.2	370.8	359.3
67.5°	397.8	409.8	353.2	329.4	321.3
70°	335.7	338.0	305.5	295.4	294.0
72.5°	284.6	277.4	265.0	270.8	273.0
75°	234.6	228.8	232.8	252.6	257.8
77.5°	187.4	184.1	209.8	238.4	247.2
80°	145.2	146.7	190.9	220.0	225.4
82.5°	105.7	118.2	170.0	196.5	201.1
85°	65.1	96.6	147.5	173.1	177.4
87.5°	23.0	75.8	126.8	151.5	155.2
90°	0.2	61.1	119.9	141.4	141.2
92.5°	20.7	81.2	129.0	146.0	134.2
95°	39.3	92.4	145.7	161.1	142.8
97.5°	49.4	95.2	159.3	181.0	160.9
100°	57.7	104.2	159.4	192.6	177.4
102.5°	65.6	114.9	163.0	192.9	183.4
105°	75.7	120.7	170.0	191.7	184.0
107.5°	86.4	127.8	178.9	199.1	190.5
110°	97.5	135.7	188.4	202.3	196.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	110.1	145.1	194.0	209.2	203.6
115°	120.5	154.7	197.9	213.7	209.3
117.5°	128.8	162.2	201.4	214.4	209.5
120°	137.4	168.8	204.0	214.0	208.0
122.5°	147.4	175.0	206.7	214.1	205.9
125°	158.9	181.6	210.2	215.0	205.5
127.5°	170.5	190.0	214.7	215.8	205.8
130°	181.8	198.3	220.1	217.5	206.1
132.5°	193.0	206.2	224.1	219.9	207.5
135°	203.6	213.1	226.1	223.3	210.3
137.5°	213.0	218.8	226.5	226.8	214.8
140°	220.2	222.8	226.0	227.7	218.3
142.5°	224.6	225.5	226.4	226.5	219.3
145°	226.9	227.0	227.9	224.8	219.1
147.5°	228.4	227.3	230.7	223.3	216.9
150°	229.4	227.2	232.5	224.3	217.2
152.5°	230.0	226.6	232.4	227.7	219.1
155°	230.1	225.6	231.9	231.1	223.7
157.5°	229.7	224.1	231.1	231.8	226.5
160°	228.6	222.3	229.2	231.9	226.6
162.5°	227.5	220.8	226.0	232.1	226.5
165°	226.3	219.3	223.3	229.9	226.3
167.5°	225.8	218.6	221.6	225.5	222.6
170°	226.1	219.2	221.2	222.5	219.5
172.5°	226.7	221.0	220.8	221.1	217.9
175°	227.2	223.3	221.6	220.3	217.9
177.5°	227.5	225.5	225.2	222.9	220.4
180°	227.1	227.1	227.1	227.1	227.1

(END OF REPORT)