

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: 20706

Luminaire Tested: **IQ-WB-2T5-DL5**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 20706
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: IQ-WB-2T5-DL5
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

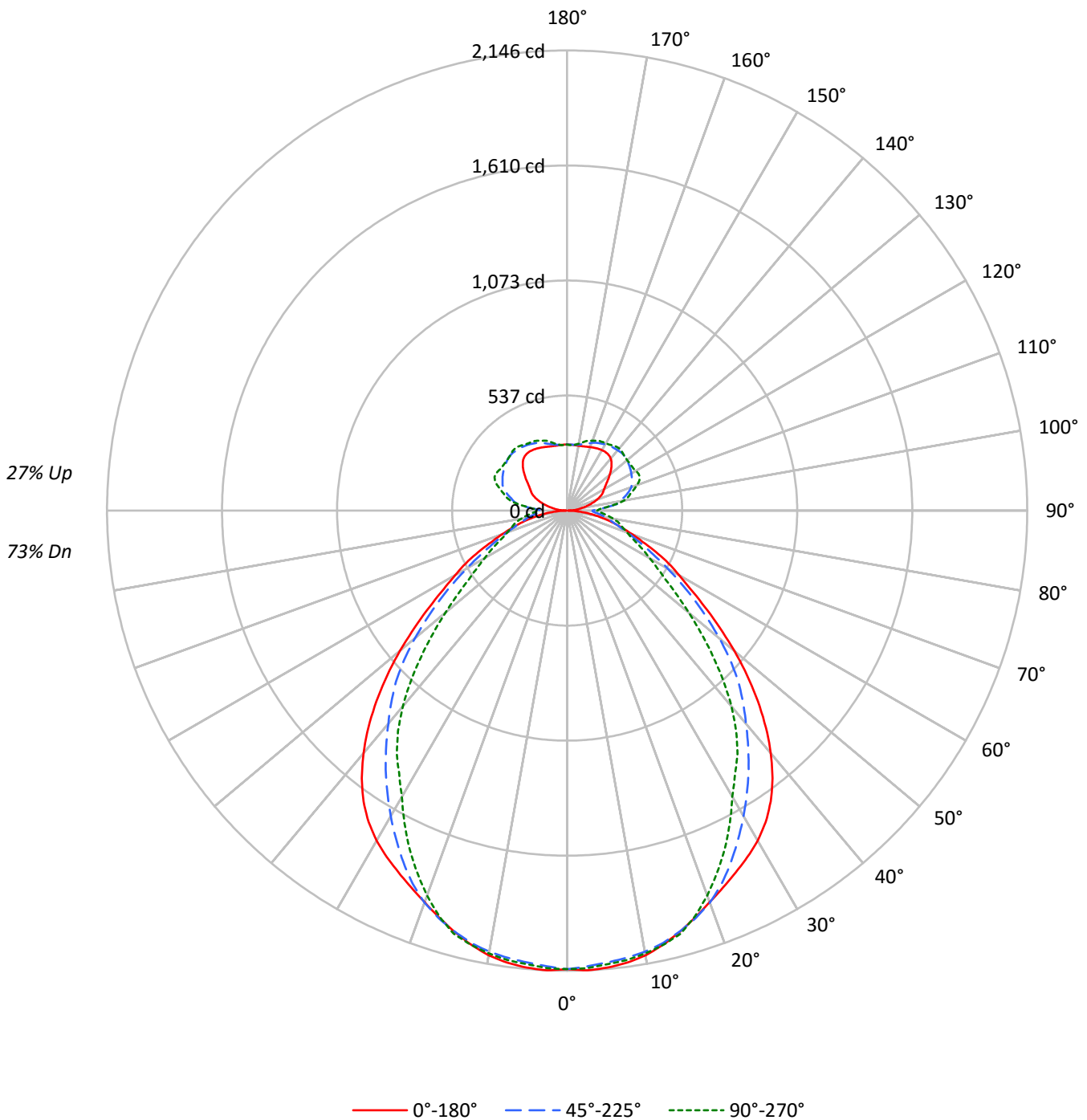
Lumens per Lamp: 4500 (2 lamps)
Luminaire Lumens: 6641.3 lumens
Efficiency: 73.8%
Efficacy: 58.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.1 / 1.23
Luminous Opening: Rectangular w/ Sides (W: 0.32' x L: 3.67' x H: 0.06')
CIE Type: Semi-Direct

Input Watts (W): 113
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



TEST NUMBER: 20706
CATALOG NUMBER: IQ-WB-2T5-DL5

Luminous Intensity Polar Plot





TEST NUMBER: 20706

CATALOG NUMBER: IQ-WB-2T5-DL5

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	83	83	83	83	79	79	79	79	71	71	71	64	64	64	57	57	57	54				54
1	76	73	70	67	72	69	67	64	62	60	59	56	55	53	50	49	48	45				45
2	70	64	59	56	66	61	57	53	55	52	49	50	47	45	45	43	41	39				39
3	64	57	51	47	60	54	49	45	49	45	42	45	41	39	40	38	36	33				33
4	59	51	45	40	56	48	43	39	44	40	36	40	37	34	36	34	31	29				29
5	54	45	39	35	51	43	38	34	40	35	32	36	33	30	33	30	28	26				26
6	50	41	35	31	47	39	34	30	36	31	28	33	29	26	30	27	24	23				23
7	47	37	31	27	44	36	30	26	33	28	25	30	26	23	28	24	22	20				20
8	43	34	28	24	41	33	27	24	30	26	22	28	24	21	25	22	20	18				18
9	40	31	26	22	38	30	25	21	28	23	20	26	22	19	24	20	18	17				17
10	38	29	23	20	36	28	23	19	26	21	18	24	20	17	22	19	16	15				15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19601	19601	19601
5°	19660	19223	19229
10°	19544	18960	18894
15°	19205	18562	18458
20°	18846	18034	17438
25°	18682	17136	16178
30°	18634	16075	14714
35°	18315	14990	13701
40°	17446	13847	12326
45°	16045	12790	10502
50°	14221	11271	8634
55°	12226	9564	7053
60°	10735	7945	6158
65°	9569	6603	5547
70°	8222	5738	5225
75°	7460	5227	5388
80°	6685	5315	5569
85°	5485	5553	5715



TEST NUMBER: 20706

CATALOG NUMBER: IQ-WB-2T5-DL5

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	201.8	3.0	2.2
10°-20°	571.7	8.6	6.4
20°-30°	829.3	12.5	9.2
30°-40°	935.5	14.1	10.4
40°-50°	861.7	13.0	9.6
50°-60°	631.0	9.5	7.0
60°-70°	407.6	6.1	4.5
70°-80°	250.7	3.8	2.8
80°-90°	142.6	2.1	1.6
90°-100°	171.9	2.6	1.9
100°-110°	268.5	4.0	3.0
110°-120°	301.6	4.5	3.4
120°-130°	293.0	4.4	3.3
130°-140°	271.6	4.1	3.0
140°-150°	223.0	3.4	2.5
150°-160°	158.7	2.4	1.8
160°-170°	91.6	1.4	1.0
170°-180°	29.5	0.4	0.3
0°-30°	1602.7	24.1	17.8
0°-40°	2538.2	38.2	28.2
0°-60°	4031.0	60.7	44.8
0°-90°	4831.9	72.8	53.7
90°-120°	742.0	11.2	8.2
90°-150°	1529.6	23.0	17.0
90°-180°	1809.0	27.2	20.1
0°-180°	6641.3	100.0	73.8

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2139	2139	2139	2139	2139	
5°	2140	2124	2116	2121	2124	203
15°	2033	2018	2032	2042	2043	573
25°	1861	1834	1808	1770	1740	859
35°	1656	1612	1475	1390	1385	1030
45°	1258	1244	1129	1004	962	966
55°	783	812	722	593	560	708
65°	457	457	399	365	359	453
75°	224	220	227	251	259	238
85°	62	90	140	165	171	66
90°	4	64	118	139	140	7
95°	40	129	190	197	184	39
105°	110	203	287	317	306	116
115°	179	248	333	369	374	175
125°	225	284	356	370	365	203
135°	293	326	370	381	371	225
145°	325	338	363	372	371	203
155°	321	327	347	358	358	149
165°	310	310	322	334	335	88
175°	308	307	308	307	306	29
180°	308	308	308	308	308	



TEST NUMBER: 20706

CATALOG NUMBER: IQ-WB-2T5-DL5

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2138.6	2138.6	2138.6	2138.6	2138.6
2.5°	2146.0	2131.3	2127.5	2131.6	2136.0
5°	2139.9	2123.5	2115.7	2120.6	2124.3
7.5°	2127.5	2108.2	2104.2	2110.1	2114.8
10°	2106.0	2086.6	2089.0	2093.6	2097.2
12.5°	2073.5	2056.9	2065.5	2069.4	2074.0
15°	2032.8	2018.5	2031.8	2041.6	2043.0
17.5°	1988.4	1974.9	1992.5	1998.0	1983.9
20°	1943.7	1928.7	1945.9	1930.4	1909.8
22.5°	1901.6	1881.4	1883.4	1854.2	1827.7
25°	1861.4	1833.9	1808.4	1769.6	1739.6
27.5°	1821.6	1786.3	1728.0	1678.0	1643.1
30°	1777.3	1736.2	1645.3	1577.8	1540.8
32.5°	1723.1	1679.4	1560.7	1473.9	1457.5
35°	1655.6	1612.4	1474.9	1390.2	1385.3
37.5°	1573.5	1534.1	1386.8	1313.0	1295.1
40°	1478.1	1445.1	1297.3	1219.6	1192.3
42.5°	1372.1	1347.9	1214.1	1115.4	1079.6
45°	1258.1	1243.6	1129.0	1003.9	962.1
47.5°	1139.1	1136.1	1031.1	890.2	847.4
50°	1016.8	1026.6	926.2	781.2	740.8
52.5°	896.3	919.0	822.8	681.6	643.7
55°	783.0	812.0	721.7	592.9	559.6
57.5°	683.0	709.4	627.6	514.8	496.9
60°	602.2	620.0	541.6	456.9	445.0
62.5°	533.4	538.1	463.9	408.2	400.0
65°	456.7	457.4	398.6	365.3	358.6
67.5°	380.9	383.4	344.5	326.8	321.7
70°	320.6	320.9	298.9	293.8	295.4
72.5°	271.6	268.7	259.4	269.4	275.1
75°	223.5	220.2	227.0	250.6	258.6
77.5°	178.8	176.0	203.4	233.2	241.9
80°	138.4	139.8	183.0	211.2	217.7
82.5°	100.6	111.9	161.6	187.7	193.8
85°	61.9	90.3	139.8	164.8	170.8
87.5°	23.2	70.9	120.2	144.0	149.5
90°	3.7	63.8	117.9	138.8	140.1
92.5°	21.8	97.9	143.2	157.8	149.5
95°	40.5	128.6	189.6	197.3	184.3
97.5°	55.6	147.2	233.3	248.1	230.7
100°	72.7	172.1	253.1	288.9	269.6
102.5°	90.4	191.1	268.7	306.4	291.2
105°	109.7	202.9	286.7	317.0	306.2
107.5°	128.9	213.5	303.7	335.9	326.3
110°	146.8	224.3	318.7	349.2	347.0



TEST NUMBER: 20706

CATALOG NUMBER: IQ-WB-2T5-DL5

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	164.5	235.5	326.6	362.2	364.3
115°	179.0	247.5	333.0	369.1	373.9
117.5°	189.3	257.0	339.9	370.1	374.3
120°	198.8	265.4	345.4	368.4	370.5
122.5°	210.2	274.7	351.3	368.4	366.2
125°	225.0	284.3	356.0	370.0	365.0
127.5°	242.0	295.0	360.6	371.0	365.4
130°	259.3	306.2	365.1	373.7	365.4
132.5°	276.6	316.6	368.8	376.5	367.5
135°	292.8	325.9	370.1	381.1	371.0
137.5°	306.5	333.3	369.3	383.3	376.4
140°	316.6	337.5	367.1	382.3	378.2
142.5°	322.7	338.9	364.7	377.6	376.0
145°	325.4	338.3	362.9	371.5	370.8
147.5°	326.1	336.5	360.0	367.3	364.7
150°	325.2	333.8	356.1	364.5	361.7
152.5°	323.4	330.5	351.6	362.3	360.1
155°	321.0	326.9	347.4	358.4	357.8
157.5°	318.1	322.8	342.6	352.8	352.9
160°	314.8	318.4	336.0	348.0	346.9
162.5°	311.9	313.8	328.0	342.8	342.0
165°	309.5	309.6	321.5	334.5	335.2
167.5°	307.8	306.4	316.4	325.2	325.1
170°	307.1	305.3	312.4	318.2	316.8
172.5°	307.0	306.3	308.8	312.4	311.1
175°	307.5	307.1	308.0	307.3	306.0
177.5°	307.8	307.2	308.5	307.3	305.8
180°	307.7	307.7	307.7	307.7	307.7

(END OF REPORT)