

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: 20708

Luminaire Tested: **IQ-WB-2T5-DL7**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 20708
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: IQ-WB-2T5-DL7
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

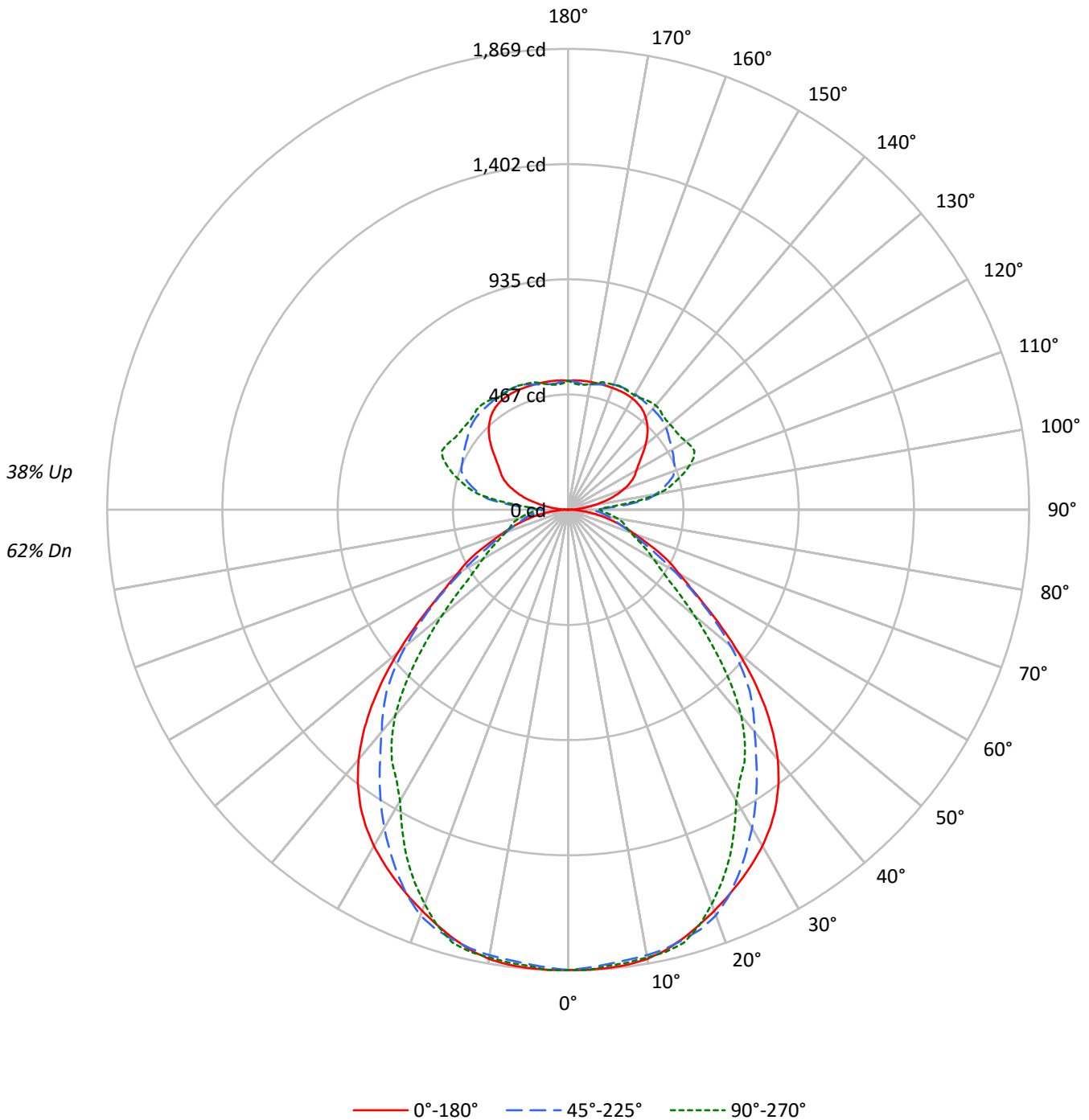
Lumens per Lamp: 4500 (2 lamps)
Luminaire Lumens: 7008.8 lumens
Efficiency: 77.9%
Efficacy: 60.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.11 / 1.26
Luminous Opening: Rectangular w/ Sides (W: 0.32' x L: 3.67' x H: 0.06')
CIE Type: Semi-Direct

Input Watts (W): 115
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	86	86	86	86	80	80	80	80	70	70	70	61	61	61	52	52	52	48
1	78	75	72	69	73	70	68	65	62	60	58	54	52	51	46	45	44	41
2	72	66	61	57	67	62	58	54	55	51	49	48	45	43	41	40	38	35
3	66	58	53	48	61	55	50	46	48	45	41	43	40	37	37	35	33	30
4	60	52	46	41	56	49	43	39	43	39	36	38	35	32	33	31	29	26
5	56	47	40	36	52	44	38	34	39	34	31	34	31	28	30	27	25	23
6	51	42	36	31	48	40	34	30	35	31	27	31	28	25	28	25	22	20
7	48	38	32	27	45	36	30	26	32	28	24	29	25	22	25	22	20	18
8	44	35	29	24	41	33	27	24	30	25	22	26	23	20	23	20	18	16
9	41	32	26	22	39	30	25	21	27	23	20	24	21	18	22	19	16	15
10	39	29	24	20	36	28	23	19	25	21	18	23	19	16	20	17	15	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17110	17110	17110
5°	17140	16806	16808
10°	17169	16652	16611
15°	17004	16495	16419
20°	16787	16227	15543
25°	16634	15479	14429
30°	16510	14561	13014
35°	16242	13549	12329
40°	15606	12553	11282
45°	14387	11790	9587
50°	12595	10458	7788
55°	10574	8808	6256
60°	9252	7239	5517
65°	8436	5922	5053
70°	7281	5204	4759
75°	6675	4808	4944
80°	5980	4928	5149
85°	4918	5176	5270



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	176.6	2.5	2.0
10°-20°	507.8	7.2	5.6
20°-30°	743.8	10.6	8.3
30°-40°	843.5	12.0	9.4
40°-50°	788.5	11.2	8.8
50°-60°	569.6	8.1	6.3
60°-70°	366.9	5.2	4.1
70°-80°	229.0	3.3	2.5
80°-90°	131.6	1.9	1.5
90°-100°	208.4	3.0	2.3
100°-110°	392.8	5.6	4.4
110°-120°	443.6	6.3	4.9
120°-130°	427.7	6.1	4.8
130°-140°	398.4	5.7	4.4
140°-150°	334.3	4.8	3.7
150°-160°	247.6	3.5	2.8
160°-170°	149.4	2.1	1.7
170°-180°	49.3	0.7	0.5
0°-30°	1428.2	20.4	15.9
0°-40°	2271.7	32.4	25.2
0°-60°	3629.8	51.8	40.3
0°-90°	4357.3	62.2	48.4
90°-120°	1044.8	14.9	11.6
90°-150°	2205.1	31.5	24.5
90°-180°	2651.0	37.8	29.5
0°-180°	7008.8	100.0	77.9

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1867	1867	1867	1867	1867	
5°	1866	1854	1850	1856	1857	178
15°	1800	1785	1806	1823	1817	508
25°	1657	1650	1634	1587	1552	764
35°	1468	1458	1333	1255	1247	915
45°	1128	1136	1041	935	878	864
55°	677	722	665	545	496	616
65°	403	409	358	336	327	397
75°	200	201	209	229	237	213
85°	56	85	130	154	158	59
90°	0	54	105	125	126	5
95°	45	175	241	210	200	50
105°	178	300	418	460	453	185
115°	288	358	472	547	565	281
125°	359	414	500	539	540	323
135°	455	486	529	552	542	350
145°	510	520	536	546	546	319
155°	525	520	542	549	541	243
165°	526	511	526	539	536	149
175°	526	517	515	513	509	50
180°	523	523	523	523	523	



TEST NUMBER: 20708

CATALOG NUMBER: IQ-WB-2T5-DL7

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1866.8	1866.8	1866.8	1866.8	1866.8
2.5°	1867.2	1857.4	1859.0	1865.7	1868.6
5°	1865.6	1853.5	1849.7	1855.5	1856.8
7.5°	1861.1	1845.3	1841.5	1849.0	1852.4
10°	1850.1	1832.4	1834.7	1841.6	1843.8
12.5°	1829.3	1812.7	1823.5	1833.0	1836.3
15°	1799.9	1785.2	1805.5	1822.6	1817.3
17.5°	1766.4	1754.0	1784.2	1785.2	1767.0
20°	1731.3	1721.1	1751.0	1727.4	1702.3
22.5°	1695.2	1686.3	1698.3	1660.9	1631.2
25°	1657.4	1649.9	1633.5	1586.6	1551.5
27.5°	1617.8	1611.6	1563.5	1502.9	1458.3
30°	1574.7	1569.1	1490.3	1407.8	1362.8
32.5°	1525.5	1518.6	1413.3	1318.0	1295.7
35°	1468.2	1458.5	1333.1	1255.2	1246.6
37.5°	1400.9	1389.5	1250.9	1198.6	1175.8
40°	1322.2	1312.3	1176.1	1123.3	1091.3
42.5°	1230.8	1227.6	1111.1	1037.5	989.4
45°	1128.1	1135.7	1040.7	935.3	878.3
47.5°	1016.5	1037.0	954.6	827.9	769.0
50°	900.5	933.1	859.4	723.8	668.2
52.5°	784.8	826.6	760.7	628.8	576.2
55°	677.2	721.7	664.7	545.3	496.3
57.5°	587.6	626.0	576.4	471.0	441.0
60°	519.0	548.7	493.5	417.8	398.7
62.5°	465.1	478.8	419.0	374.4	362.3
65°	402.6	408.8	357.5	336.0	326.7
67.5°	336.4	344.8	309.8	300.2	293.9
70°	283.9	289.7	271.1	269.5	269.1
72.5°	242.5	242.8	237.7	246.9	249.7
75°	200.0	200.9	208.8	228.9	237.3
77.5°	160.0	161.2	187.2	215.9	223.3
80°	123.8	128.7	169.7	197.4	201.3
82.5°	89.9	103.6	150.4	175.2	178.9
85°	55.5	84.6	130.3	154.0	157.5
87.5°	19.6	66.2	111.4	134.0	138.0
90°	0.0	53.5	105.1	124.9	126.5
92.5°	19.0	107.8	153.1	145.0	138.4
95°	45.4	175.4	240.6	210.0	200.3
97.5°	75.9	216.2	324.8	305.4	290.8
100°	108.0	258.4	361.2	388.3	372.4
102.5°	142.3	285.7	390.5	429.2	418.5
105°	177.8	299.6	418.3	460.1	453.1
107.5°	209.3	311.8	444.4	494.0	490.6
110°	237.3	324.9	461.2	519.3	523.4



TEST NUMBER: 20708

CATALOG NUMBER: IQ-WB-2T5-DL7

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	264.8	340.9	467.1	539.3	551.0
115°	287.9	358.2	472.2	546.9	564.7
117.5°	304.8	371.8	480.3	544.7	560.5
120°	319.5	384.9	486.6	540.1	552.4
122.5°	336.9	397.8	492.9	538.6	543.7
125°	358.7	414.2	500.2	539.3	540.4
127.5°	383.5	433.1	509.1	539.6	539.5
130°	409.1	452.3	518.2	541.0	538.1
132.5°	433.3	470.7	524.2	545.1	538.2
135°	455.1	486.1	529.0	552.0	541.6
137.5°	474.0	498.3	531.0	555.7	550.0
140°	489.3	507.8	532.3	555.2	551.8
142.5°	501.3	515.1	534.0	552.0	549.5
145°	510.5	520.0	535.7	545.9	545.5
147.5°	516.7	522.9	539.3	543.5	537.3
150°	520.9	523.5	541.3	543.8	536.3
152.5°	523.7	522.1	541.7	545.7	537.8
155°	524.8	519.6	542.0	548.7	541.2
157.5°	525.3	517.2	542.2	547.1	543.1
160°	525.7	515.0	539.8	545.5	539.3
162.5°	525.8	512.7	533.4	544.4	537.3
165°	525.9	511.2	525.8	539.3	535.8
167.5°	526.0	510.5	520.4	529.2	525.7
170°	526.2	511.8	516.4	520.8	517.6
172.5°	526.3	514.0	513.7	515.3	511.1
175°	525.6	517.1	515.1	513.4	508.9
177.5°	525.3	520.8	520.5	518.2	512.6
180°	523.3	523.3	523.3	523.3	523.3

(END OF REPORT)