

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: 20709

Luminaire Tested: **IQ-WB-2T5-DL8**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 20709  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: IQ-WB-2T5-DL8  
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: -

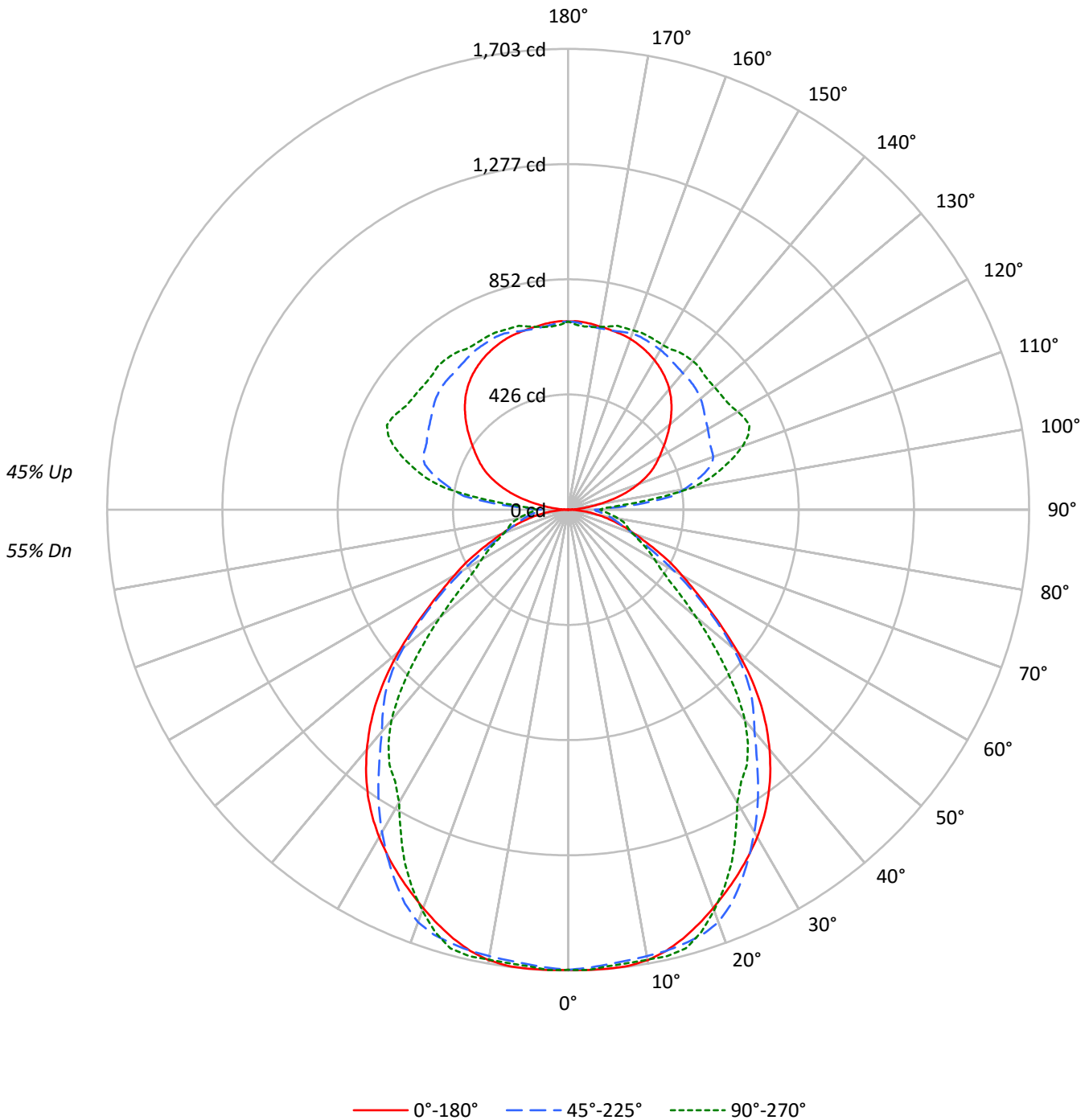
**Summary**

Lumens per Lamp: 4500 (2 lamps)  
Luminaire Lumens: 7297.2 lumens  
Efficiency: 81.1%  
Efficacy: 63.5 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.12 / 1.26  
Luminous Opening: Rectangular w/ Sides (W: 0.32' x L: 3.67' x H: 0.06')  
CIE Type: General Diffuse  
  
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	88	88	88	88	81	81	81	81	70	70	70		59	59	59		49	49	49	44
1	80	77	74	71	74	71	69	66	61	59	57		52	51	49		43	42	42	38
2	73	67	62	58	68	63	58	55	54	51	48		46	44	42		39	37	36	32
3	67	60	54	49	62	56	50	46	48	44	41		41	38	36		35	32	31	27
4	62	53	47	42	57	49	44	40	43	39	35		37	34	31		31	29	27	24
5	57	47	41	36	52	44	39	34	39	34	31		33	30	27		28	26	24	21
6	52	43	36	31	49	40	34	30	35	30	27		30	27	24		26	23	21	19
7	48	39	32	28	45	36	31	26	32	27	24		28	24	21		24	21	19	17
8	45	35	29	25	42	33	27	24	29	25	21		25	22	19		22	19	17	15
9	42	32	26	22	39	30	25	21	27	22	19		23	20	17		20	17	15	14
10	39	30	24	20	37	28	23	19	25	20	17		22	18	16		19	16	14	12

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

	0°	45°	90°
0°	15584	15584	15584
5°	15645	15324	15326
10°	15687	15207	15209
15°	15499	15167	15168
20°	15188	15032	14391
25°	14910	14345	13314
30°	14645	13441	11930
35°	14267	12424	11382
40°	13657	11429	10501
45°	12773	10815	8924
50°	11428	9696	7182
55°	9839	8117	5714
60°	8644	6595	5109
65°	7637	5343	4732
70°	6683	4830	4455
75°	6131	4508	4642
80°	5502	4597	4812
85°	4537	4822	4915



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	161.2	2.2	1.8
10°-20°	466.2	6.4	5.2
20°-30°	682.0	9.3	7.6
30°-40°	768.7	10.5	8.5
40°-50°	723.2	9.9	8.0
50°-60°	524.3	7.2	5.8
60°-70°	338.2	4.6	3.8
70°-80°	213.7	2.9	2.4
80°-90°	122.7	1.7	1.4
90°-100°	237.6	3.3	2.6
100°-110°	484.9	6.6	5.4
110°-120°	552.7	7.6	6.1
120°-130°	533.9	7.3	5.9
130°-140°	495.1	6.8	5.5
140°-150°	417.9	5.7	4.6
150°-160°	315.4	4.3	3.5
160°-170°	194.2	2.7	2.2
170°-180°	65.4	0.9	0.7
0°-30°	1309.4	17.9	14.5
0°-40°	2078.1	28.5	23.1
0°-60°	3325.5	45.6	37.0
0°-90°	4000.1	54.8	44.4
90°-120°	1275.2	17.5	14.2
90°-150°	2722.1	37.3	30.2
90°-180°	3297.0	45.2	36.6
0°-180°	7297.2	100.0	81.1

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1700	1700	1700	1700	1700	
5°	1703	1690	1687	1693	1693	162
15°	1641	1628	1660	1686	1679	462
25°	1486	1497	1514	1470	1432	685
35°	1290	1321	1222	1159	1151	804
45°	1002	1032	955	880	818	768
55°	630	655	612	505	453	570
65°	364	377	322	314	306	364
75°	184	188	196	214	223	195
85°	51	78	121	144	147	54
90°	0	50	98	118	118	5
95°	40	198	282	248	206	49
105°	198	348	521	586	588	207
115°	339	422	578	705	739	333
125°	438	497	615	693	708	393
135°	540	583	653	706	708	416
145°	613	633	669	698	712	384
155°	657	656	689	705	706	303
165°	680	663	683	704	703	192
175°	695	686	686	685	680	66
180°	695	695	695	695	695	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1700.3	1700.3	1700.3	1700.3	1700.3
2.5°	1702.7	1692.8	1694.0	1700.8	1702.6
5°	1702.9	1690.5	1686.6	1692.6	1693.1
7.5°	1700.5	1684.3	1680.3	1687.4	1690.2
10°	1690.4	1672.9	1675.5	1685.7	1688.2
12.5°	1670.1	1654.2	1670.1	1686.5	1689.5
15°	1640.6	1627.8	1660.1	1685.5	1678.8
17.5°	1605.1	1596.8	1647.4	1656.9	1635.8
20°	1566.4	1564.4	1622.0	1604.6	1576.1
22.5°	1526.6	1530.7	1575.7	1541.7	1509.1
25°	1485.6	1496.8	1513.8	1470.4	1431.6
27.5°	1442.8	1461.8	1446.2	1389.1	1340.2
30°	1396.8	1422.9	1375.7	1297.9	1249.3
32.5°	1346.4	1376.4	1301.3	1214.4	1189.9
35°	1289.7	1320.7	1222.5	1158.8	1150.8
37.5°	1226.4	1256.5	1142.1	1111.9	1090.3
40°	1157.1	1186.0	1070.8	1048.1	1015.8
42.5°	1082.4	1111.1	1013.0	973.7	922.6
45°	1001.5	1031.8	954.6	880.1	817.6
47.5°	912.9	946.0	880.8	779.1	713.5
50°	817.1	852.5	796.8	680.3	616.2
52.5°	719.7	753.7	704.3	588.3	528.3
55°	630.1	655.1	612.5	505.1	453.3
57.5°	552.0	566.5	528.5	438.2	404.6
60°	484.9	497.6	449.6	387.0	369.2
62.5°	427.1	436.9	378.8	348.3	338.2
65°	364.5	377.3	322.5	314.0	305.9
67.5°	307.9	321.7	283.0	281.4	275.4
70°	260.6	271.0	251.6	252.7	251.9
72.5°	222.5	227.2	222.7	231.3	233.6
75°	183.7	187.7	195.8	214.4	222.8
77.5°	147.3	150.0	175.3	201.7	208.6
80°	113.9	119.7	158.3	184.4	188.1
82.5°	82.8	96.2	140.4	163.6	166.7
85°	51.2	78.3	121.4	143.6	146.9
87.5°	18.3	61.1	103.7	125.4	128.9
90°	0.0	50.3	98.5	118.0	118.0
92.5°	15.2	115.5	163.0	151.4	129.1
95°	40.5	197.6	282.0	248.4	205.7
97.5°	74.8	251.2	388.6	378.1	332.8
100°	113.0	302.5	435.9	481.3	460.7
102.5°	155.9	331.9	478.8	537.7	535.4
105°	198.5	348.5	520.8	585.7	588.1
107.5°	238.2	364.6	555.6	633.8	640.6
110°	275.1	380.7	570.3	674.0	685.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	308.7	400.0	574.0	699.2	720.3
115°	339.0	422.0	577.5	704.9	739.1
117.5°	364.7	441.3	586.8	700.6	734.2
120°	388.2	459.2	595.6	694.2	723.5
122.5°	412.1	476.1	604.6	692.0	712.2
125°	437.9	496.8	615.0	693.1	708.0
127.5°	464.7	519.6	627.5	693.0	706.4
130°	490.6	542.9	638.7	694.4	704.8
132.5°	515.7	564.6	646.6	698.3	704.9
135°	539.9	582.6	653.0	705.9	707.8
137.5°	562.0	597.8	656.3	708.5	715.7
140°	581.2	611.0	658.6	707.5	716.8
142.5°	598.1	623.1	663.5	704.0	715.4
145°	613.4	632.9	668.9	698.1	712.0
147.5°	626.2	641.4	676.2	696.0	703.3
150°	637.7	647.9	681.8	697.7	702.0
152.5°	648.1	652.2	685.3	700.8	703.3
155°	657.2	655.6	688.9	705.3	706.4
157.5°	665.0	658.1	692.2	704.9	707.9
160°	671.4	659.8	692.6	705.3	704.8
162.5°	676.5	661.3	688.1	707.1	703.6
165°	680.0	663.3	682.9	704.3	703.4
167.5°	683.3	666.6	680.8	694.9	693.3
170°	686.9	672.3	680.3	688.7	686.0
172.5°	691.5	679.1	681.8	684.9	680.9
175°	695.0	685.5	686.4	685.1	680.0
177.5°	697.3	691.3	693.1	690.4	683.9
180°	695.3	695.3	695.3	695.3	695.3

(END OF REPORT)