

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: 23389

Luminaire Tested: **R2-WL-1T5-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 23389
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R2-WL-1T5-14
Description: WITH WHITE INTERIOR AND FROSTED LINEAR PRISMATIC PLASTIC LENS

Light Source: ONE SYLVANIA 54 WATT T5HO LAMP

FP54/841. LUMEN RATING = 4450 LMS.

Ballast/Driver: -

Summary

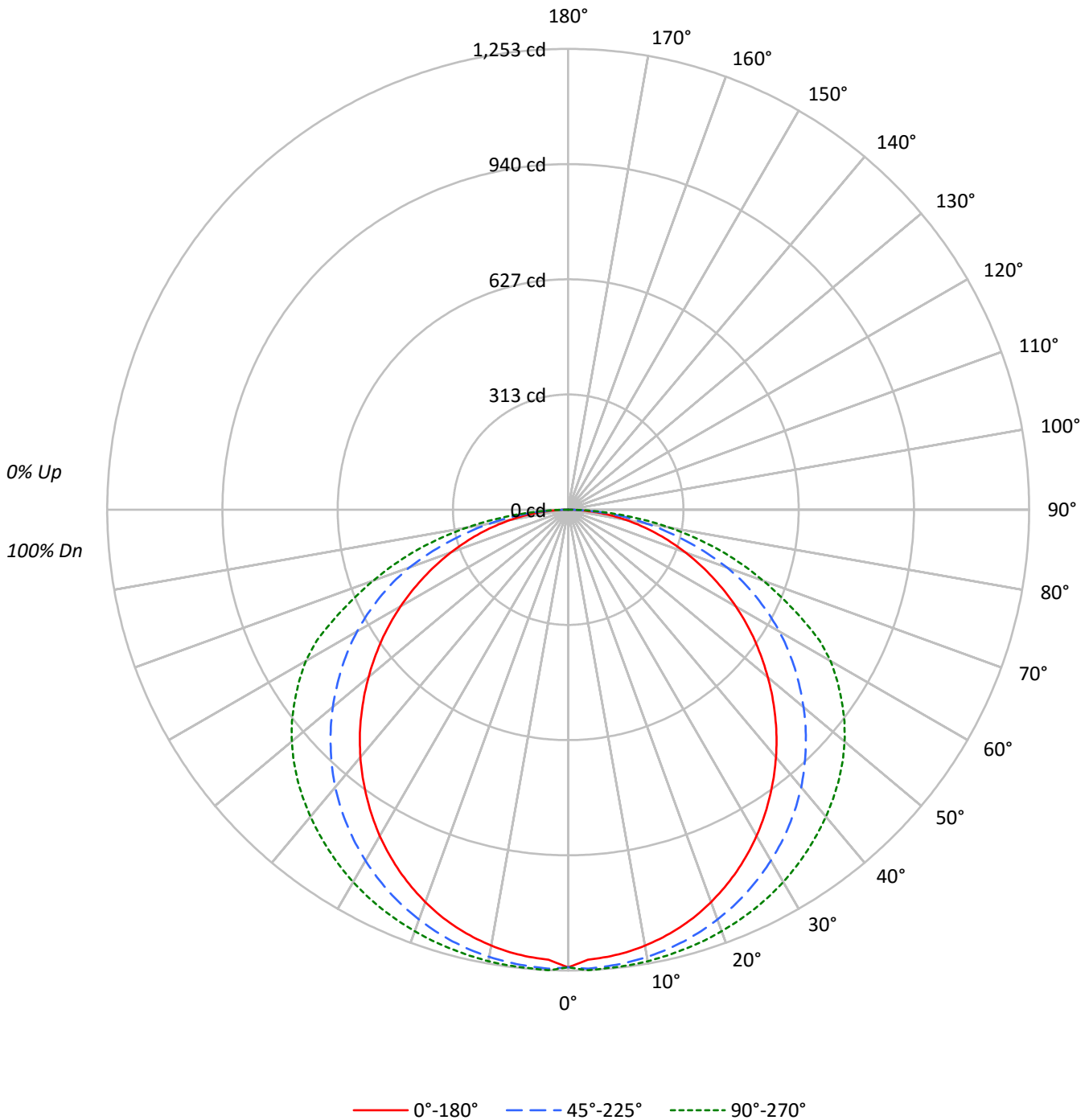
Lumens per Lamp: 4450 (1 lamp)
Luminaire Lumens: 4048.9 lumens
Efficiency: 91.0%
Efficacy: 119.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.4 / 1.45
Luminous Opening: Rectangular (W 0.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 34
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: 23389
CATALOG NUMBER: R2-WL-1T5-14

Luminous Intensity Polar Plot





TEST NUMBER: 23389
 CATALOG NUMBER: R2-WL-1T5-14

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	108	108	108	108	106	106	106	106	101	101	101	97	97	97	93	93	93	91
1	98	93	89	85	96	91	87	84	87	84	81	84	81	79	80	78	76	74
2	89	81	74	68	86	79	73	68	76	70	66	73	68	64	70	66	63	61
3	80	70	62	56	78	69	62	56	66	60	55	63	58	54	61	57	53	51
4	73	62	53	47	71	61	53	47	58	51	46	56	50	45	54	49	45	43
5	67	55	47	40	65	54	46	40	52	45	40	50	44	39	48	43	39	37
6	62	49	41	35	60	49	40	35	47	40	34	45	39	34	44	38	34	32
7	57	45	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28
8	53	41	33	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25
9	50	37	30	24	48	37	29	24	36	29	24	35	28	24	34	28	24	22
10	47	34	27	22	45	34	27	22	33	26	22	32	26	22	31	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3713	3713	3713
5°	3657	3733	3748
10°	3648	3742	3778
15°	3632	3754	3817
20°	3606	3766	3874
25°	3572	3782	3944
30°	3530	3798	4030
35°	3479	3817	4126
40°	3424	3839	4245
45°	3360	3854	4390
50°	3289	3878	4554
55°	3219	3912	4722
60°	3142	3958	4916
65°	3052	3992	4947
70°	2953	4003	4923
75°	2848	3849	4923
80°	2717	3713	4789
85°	2455	3435	4308



TEST NUMBER: 23389
 CATALOG NUMBER: R2-WL-1T5-14

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	118.1	2.9	2.7
10°-20°	341.8	8.4	7.7
20°-30°	527.8	13.0	11.9
30°-40°	654.0	16.2	14.7
40°-50°	705.9	17.4	15.9
50°-60°	676.5	16.7	15.2
60°-70°	558.2	13.8	12.5
70°-80°	354.2	8.7	8.0
80°-90°	112.5	2.8	2.5
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-30°	987.6	24.4	22.2
0°-40°	1641.6	40.5	36.9
0°-60°	3023.9	74.7	68.0
0°-90°	4048.9	100.0	91.0
90°-120°	0.0	0.0	0.0
90°-150°	0.0	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	4048.9	100.0	91.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1244	1244	1244	1244	1244	
5°	1220	1231	1246	1251	1251	116
15°	1176	1189	1215	1230	1235	332
25°	1085	1105	1148	1183	1198	500
35°	955	981	1048	1106	1132	597
45°	796	828	913	999	1040	614
55°	619	653	752	860	908	553
65°	432	465	565	668	700	428
75°	247	275	334	399	427	261
85°	72	79	100	119	126	81
90°	5	7	8	8	10	



TEST NUMBER: 23389
 CATALOG NUMBER: R2-WL-1T5-14

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1244.1	1244.1	1244.1	1244.1	1244.1
2.5°	1224.8	1234.5	1249.1	1252.7	1253.4
5°	1220.5	1230.9	1246.0	1250.8	1251.1
7.5°	1213.7	1224.6	1241.4	1247.4	1249.6
10°	1203.7	1215.7	1234.7	1243.4	1246.5
12.5°	1190.9	1203.9	1226.1	1237.8	1241.7
15°	1175.5	1189.3	1215.0	1229.7	1235.4
17.5°	1157.0	1171.9	1201.7	1219.6	1228.7
20°	1135.4	1151.9	1185.8	1209.2	1219.8
22.5°	1111.3	1129.6	1168.3	1196.9	1209.5
25°	1084.6	1105.0	1148.4	1182.8	1197.7
27.5°	1055.7	1077.4	1126.0	1166.4	1184.7
30°	1024.2	1047.8	1101.9	1148.4	1169.2
32.5°	990.6	1015.5	1075.7	1128.1	1151.7
35°	954.7	981.4	1047.5	1105.8	1132.4
37.5°	917.6	945.5	1017.5	1081.9	1111.6
40°	878.7	907.6	985.3	1055.7	1089.6
42.5°	838.3	868.3	950.1	1028.1	1065.8
45°	796.0	827.9	913.1	999.2	1040.1
47.5°	752.6	787.0	875.1	968.0	1011.9
50°	708.4	743.3	835.2	935.4	980.7
52.5°	663.6	698.5	793.5	899.2	946.3
55°	618.7	652.8	751.7	859.5	907.5
57.5°	572.9	606.9	708.2	817.3	867.1
60°	526.3	560.0	663.1	772.9	823.6
62.5°	479.2	512.4	615.3	725.5	770.0
65°	432.2	464.7	565.3	667.5	700.5
67.5°	384.9	417.3	514.5	598.0	631.2
70°	338.4	370.0	458.7	530.1	564.1
72.5°	292.2	322.5	396.7	464.3	496.3
75°	247.0	274.7	333.8	398.8	426.9
77.5°	202.3	226.3	274.2	330.8	352.9
80°	158.1	176.3	216.0	260.2	278.6
82.5°	114.3	125.6	157.8	191.0	202.8
85°	71.7	79.1	100.3	119.0	125.8
87.5°	31.7	36.3	44.8	50.0	53.4
90°	4.8	6.7	8.0	8.0	9.9

(END OF REPORT)