

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: 23300

Luminaire Tested: **R2-WL-1T5-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 23300
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R2-WL-1T5-22
Description: WITH WHITE INTERIOR AND FROSTED LINEAR PRISMATIC PLASTIC LENS

Light Source: ONE SYLVANIA 24 WATT T5HO LAMP

FP24/841. LUMEN RATING = 1750 LMS.

Ballast/Driver: -

Summary

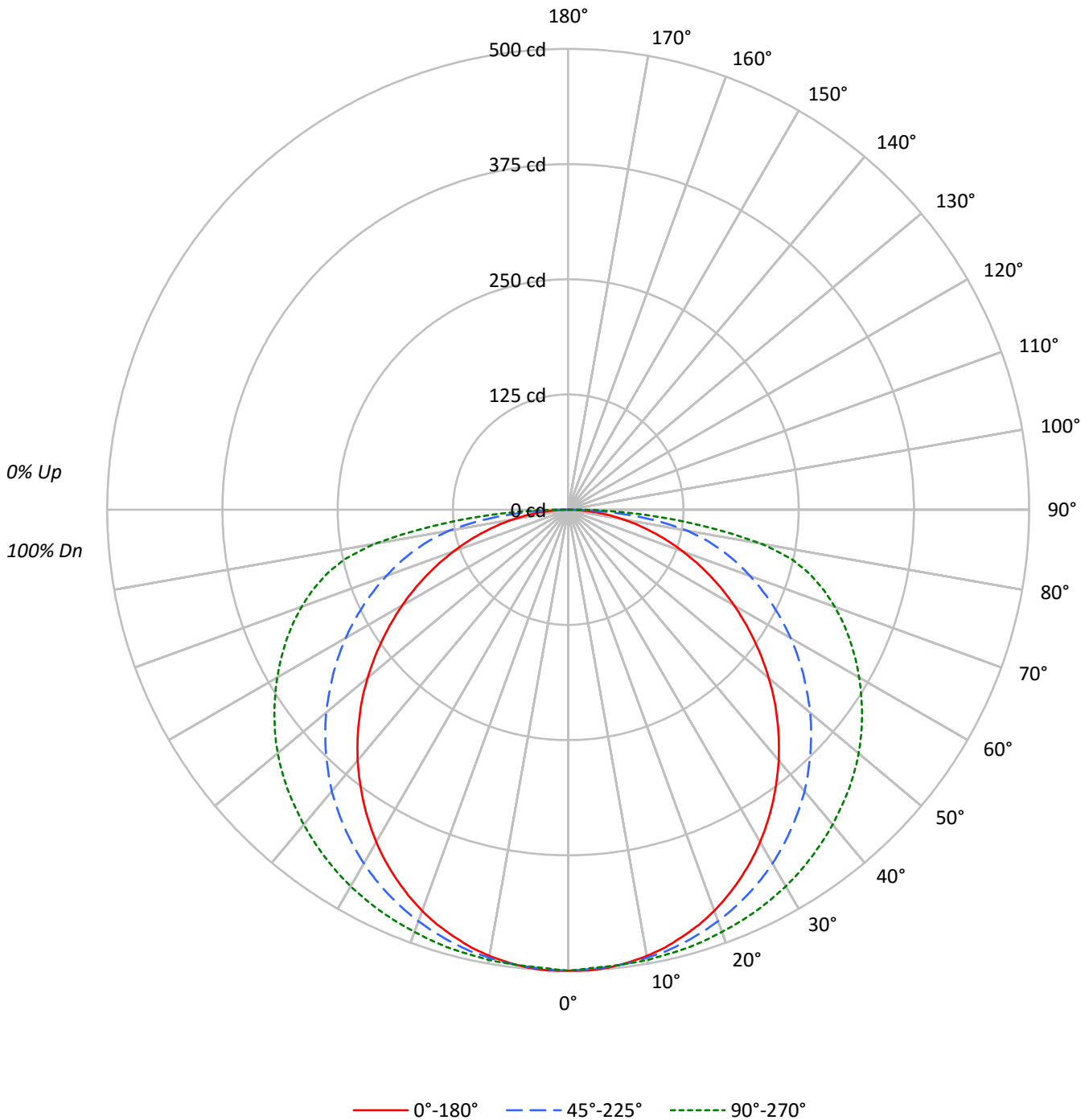
Lumens per Lamp: 1750 (1 lamp)
Luminaire Lumens: 1741.6 lumens
Efficiency: 99.5%
Efficacy: 102.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.41 / 1.46
Luminous Opening: Rectangular (W 1.95' x L: 1.91' x H: 0')
CIE Type: Direct

Input Watts (W): 17
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	118	118	118	118	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	106	101	96	91	104	98	94	90	94	90	87	90	87	84	87	84	82	79
2	96	86	79	72	93	84	77	71	81	75	70	77	72	68	74	70	67	64
3	87	75	66	59	84	73	65	58	70	63	57	67	61	56	65	60	55	53
4	79	66	56	49	76	65	56	49	62	54	48	60	53	47	57	52	47	44
5	72	59	49	42	70	57	48	42	55	47	41	53	46	41	51	45	40	38
6	67	52	43	36	65	51	43	36	50	42	36	48	41	35	46	40	35	33
7	62	47	38	32	60	47	38	32	45	37	31	44	36	31	42	36	31	29
8	57	43	34	28	56	42	34	28	41	33	28	40	33	28	39	32	27	25
9	53	40	31	25	52	39	31	25	38	30	25	37	30	25	36	29	25	23
10	50	36	28	23	49	36	28	23	35	28	23	34	27	22	33	27	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1446	1446	1446
5°	1447	1445	1443
10°	1443	1449	1456
15°	1434	1455	1475
20°	1425	1461	1499
25°	1408	1469	1533
30°	1390	1479	1575
35°	1366	1490	1623
40°	1340	1505	1683
45°	1310	1519	1758
50°	1276	1541	1849
55°	1239	1568	1961
60°	1203	1611	2106
65°	1163	1673	2309
70°	1119	1774	2600
75°	1070	1940	3034
80°	1010	2177	3538
85°	909	2215	3545



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	47.5	2.7	2.7
10°-20°	137.5	7.9	7.9
20°-30°	212.9	12.2	12.2
30°-40°	265.1	15.2	15.1
40°-50°	288.6	16.6	16.5
50°-60°	281.5	16.2	16.1
60°-70°	247.0	14.2	14.1
70°-80°	187.3	10.8	10.7
80°-90°	74.2	4.3	4.2
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°	397.9	22.8	22.7
0°-40°	663.0	38.1	37.9
0°-60°	1233.1	70.8	70.5
0°-90°	1741.6	100.0	99.5
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°	1741.6	100.0	99.5

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	500	500	500	500	500	
5°	499	500	498	498	497	47
15°	479	484	486	491	493	135
25°	442	449	461	475	481	204
35°	387	398	422	449	460	242
45°	320	336	372	412	430	247
55°	246	264	311	366	389	220
65°	170	189	245	310	338	168
75°	96	115	174	242	272	101
85°	27	39	67	95	107	31
90°	1	3	7	12	16	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	500.2	500.2	500.2	500.2	500.2
2.5°	500.4	502.0	499.2	498.5	498.2
5°	498.8	500.4	498.0	497.7	497.3
7.5°	495.7	497.7	496.3	496.9	496.7
10°	491.6	494.1	493.6	495.4	496.0
12.5°	486.5	489.6	490.6	493.5	494.2
15°	479.4	483.6	486.2	491.3	492.9
17.5°	472.1	476.4	481.1	487.8	490.4
20°	463.2	468.3	475.1	484.0	487.4
22.5°	453.0	459.1	468.3	479.8	484.5
25°	441.7	449.0	460.8	475.3	480.8
27.5°	429.6	437.8	452.5	469.4	476.6
30°	416.4	425.5	443.2	463.5	471.9
32.5°	402.1	412.3	433.1	456.8	466.4
35°	387.2	398.4	422.2	449.0	460.0
37.5°	371.4	383.8	410.8	441.0	453.4
40°	355.3	368.5	398.9	432.1	446.1
42.5°	338.2	352.3	385.4	422.5	438.1
45°	320.5	335.6	371.7	412.3	430.1
47.5°	302.8	318.6	357.4	402.1	421.0
50°	283.9	300.9	342.7	390.7	411.3
52.5°	265.0	282.3	326.7	378.3	400.6
55°	246.0	264.1	311.2	365.6	389.1
57.5°	226.9	245.7	295.0	352.3	377.0
60°	208.1	227.1	278.7	338.9	364.4
62.5°	189.0	208.3	261.8	324.8	351.3
65°	170.0	189.4	244.6	310.0	337.6
67.5°	151.1	170.6	227.2	294.9	323.2
70°	132.4	152.0	209.9	278.7	307.7
72.5°	113.9	133.6	192.2	261.5	290.8
75°	95.8	115.1	173.7	242.2	271.7
77.5°	78.0	97.0	153.6	220.1	248.5
80°	60.7	78.6	130.8	189.9	212.6
82.5°	43.8	59.6	101.8	145.4	161.6
85°	27.4	39.2	66.8	94.9	106.9
87.5°	11.7	18.1	31.6	47.3	54.5
90°	1.3	3.2	7.1	12.4	16.2

(END OF REPORT)