

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: 23298

Luminaire Tested: **R2-WL-2T5-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 23298
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R2-WL-2T5-22
Description: WITH WHITE INTERIOR AND FROSTED LINEAR PRISMATIC PLASTIC LENS

Light Source: TWO SYLVANIA 24 WATT T5HO LAMPS

FP24/841. LUMEN RATING = 1750 LMS.

Ballast/Driver: -

Summary

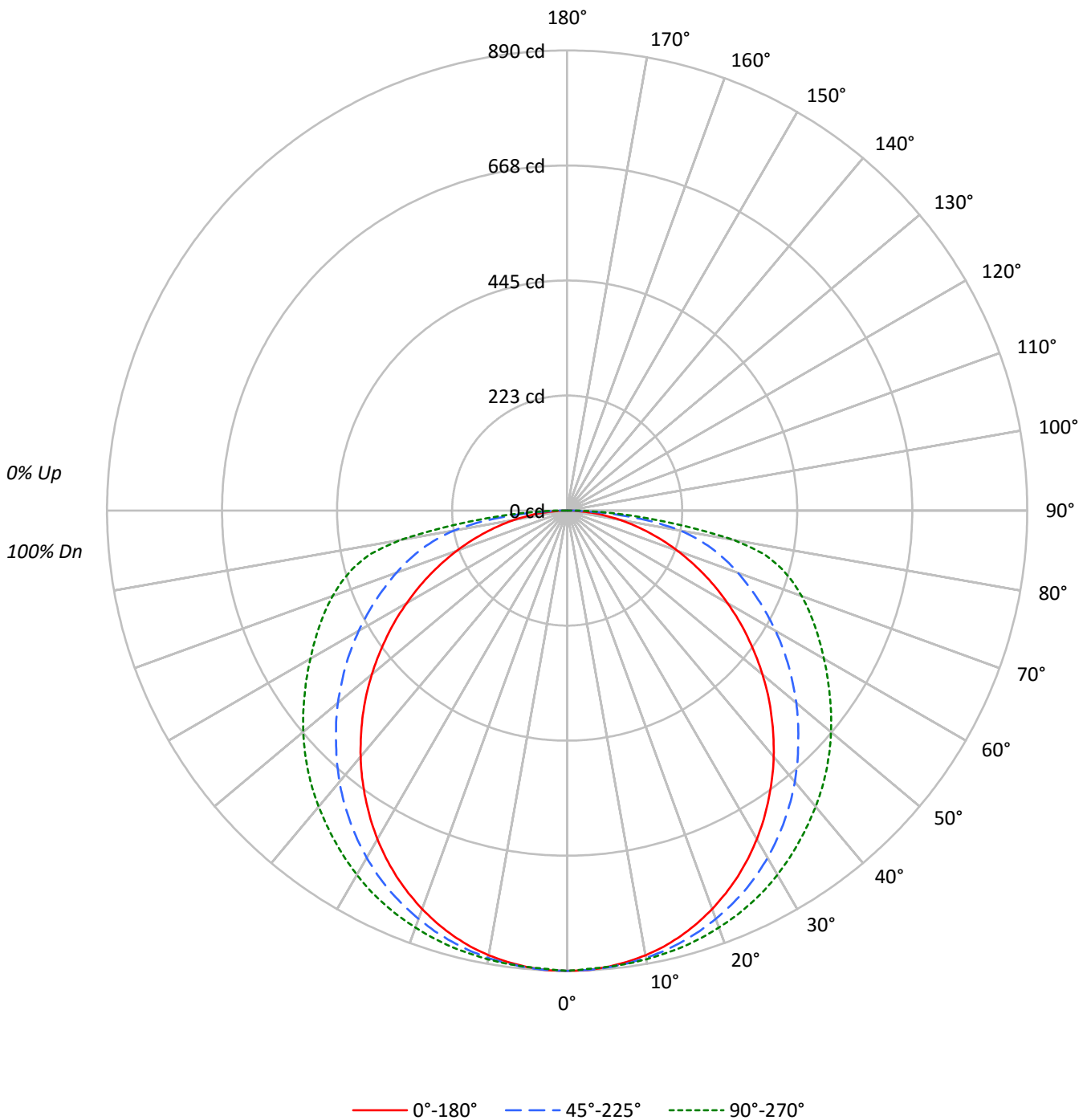
Lumens per Lamp: 1750 (2 lamps)
Luminaire Lumens: 2945.5 lumens
Efficiency: 84.2%
Efficacy: 89.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.36 / 1.42
Luminous Opening: Rectangular (W 1.95' x L: 1.91' x H: 0')
CIE Type: Direct

Input Watts (W): 33
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	100	100	100	100	98	98	98	98	94	94	94		90	90	90		86	86	86	84
1	90	86	81	78	88	84	80	76	80	77	74		77	74	72		74	71	70	68
2	81	74	67	62	79	72	66	61	69	64	60		66	62	58		63	60	57	55
3	74	64	56	51	71	63	56	50	60	54	49		58	53	48		55	51	47	45
4	67	56	48	42	65	55	48	42	53	47	41		51	45	41		49	44	40	38
5	62	50	42	36	60	49	42	36	47	41	35		46	40	35		44	39	35	33
6	57	45	37	31	55	44	37	31	43	36	31		41	35	31		40	34	30	28
7	53	41	33	28	51	40	33	27	39	32	27		37	31	27		36	31	27	25
8	49	37	30	24	48	36	29	24	35	29	24		34	28	24		33	28	24	22
9	46	34	27	22	44	33	27	22	32	26	22		31	26	22		31	25	21	20
10	43	31	24	20	42	31	24	20	30	24	20		29	24	20		28	23	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2573	2573	2573
5°	2571	2574	2570
10°	2563	2578	2587
15°	2547	2582	2611
20°	2522	2585	2639
25°	2490	2588	2676
30°	2449	2588	2715
35°	2399	2585	2759
40°	2345	2585	2821
45°	2283	2584	2899
50°	2217	2602	2995
55°	2146	2634	3123
60°	2072	2690	3315
65°	1997	2789	3615
70°	1916	2968	4078
75°	1823	3275	4778
80°	1726	3700	5444
85°	1558	3419	4593



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	84.4	2.9	2.4
10°-20°	243.6	8.3	7.0
20°-30°	373.9	12.7	10.7
30°-40°	458.4	15.6	13.1
40°-50°	489.4	16.6	14.0
50°-60°	468.0	15.9	13.4
60°-70°	405.7	13.8	11.6
70°-80°	308.8	10.5	8.8
80°-90°	113.3	3.8	3.2
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°	701.9	23.8	20.1
0°-40°	1160.3	39.4	33.2
0°-60°	2117.7	71.9	60.5
0°-90°	2945.5	100.0	84.2
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°	2945.5	100.0	84.2

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	890	890	890	890	890	
5°	886	888	887	887	886	84
15°	851	856	863	870	873	240
25°	781	791	812	832	839	360
35°	680	696	733	769	782	425
45°	559	581	632	689	709	431
55°	426	452	523	594	620	381
65°	292	323	408	496	529	289
75°	163	199	293	393	428	173
85°	47	67	103	130	138	53
90°	3	5	8	12	13	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	890.3	890.3	890.3	890.3	890.3
2.5°	889.7	890.5	889.6	888.6	887.5
5°	886.2	887.5	887.1	886.8	885.9
7.5°	880.8	882.6	883.5	884.5	884.2
10°	873.3	875.7	878.5	881.0	881.4
12.5°	863.8	867.0	871.8	876.3	877.2
15°	851.4	855.9	863.0	870.5	872.7
17.5°	836.9	842.5	852.7	862.6	866.1
20°	820.0	827.0	840.4	853.6	858.1
22.5°	801.4	810.0	826.6	843.2	849.5
25°	780.8	791.0	811.7	832.0	839.1
27.5°	758.3	770.1	794.4	818.3	827.3
30°	733.8	747.1	775.4	803.4	813.6
32.5°	707.6	722.5	754.7	786.8	798.4
35°	680.0	696.2	732.8	768.7	782.1
37.5°	651.4	669.2	709.6	750.0	765.2
40°	621.5	640.9	685.1	730.6	747.7
42.5°	590.5	611.0	659.2	709.9	729.2
45°	558.7	580.6	632.3	688.6	709.3
47.5°	526.5	549.6	605.9	666.3	688.3
50°	493.1	517.6	578.8	643.0	666.2
52.5°	459.4	484.6	550.5	618.2	643.4
55°	426.0	451.9	522.7	593.5	619.9
57.5°	392.4	419.3	494.1	568.5	596.8
60°	358.5	386.8	465.4	544.0	573.6
62.5°	325.2	355.0	436.5	519.6	551.0
65°	292.1	323.3	407.9	495.5	528.6
67.5°	259.3	292.3	379.0	471.9	506.2
70°	226.8	261.3	351.3	447.6	482.6
72.5°	195.0	230.1	323.3	421.9	457.0
75°	163.3	199.2	293.3	392.9	427.9
77.5°	133.0	168.4	260.8	357.6	390.5
80°	103.7	137.1	222.3	304.8	327.1
82.5°	74.7	103.5	169.2	219.2	229.4
85°	47.0	67.1	103.1	129.8	138.5
87.5°	20.6	29.5	44.2	57.0	62.3
90°	3.1	5.1	8.3	11.7	13.3

(END OF REPORT)