

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: 23387

Luminaire Tested: **R2-WL-2N5-14**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 23387  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: R2-WL-2N5-14  
Description: WITH WHITE INTERIOR AND FROSTED LINEAR PRISMATIC PLASTIC LENS  
  
Light Source: TWO SYLVANIA 28 WATT T5 LAMPS  
  
FP28/841. LUMEN RATING = 2600 LMS.  
  
Ballast/Driver: -

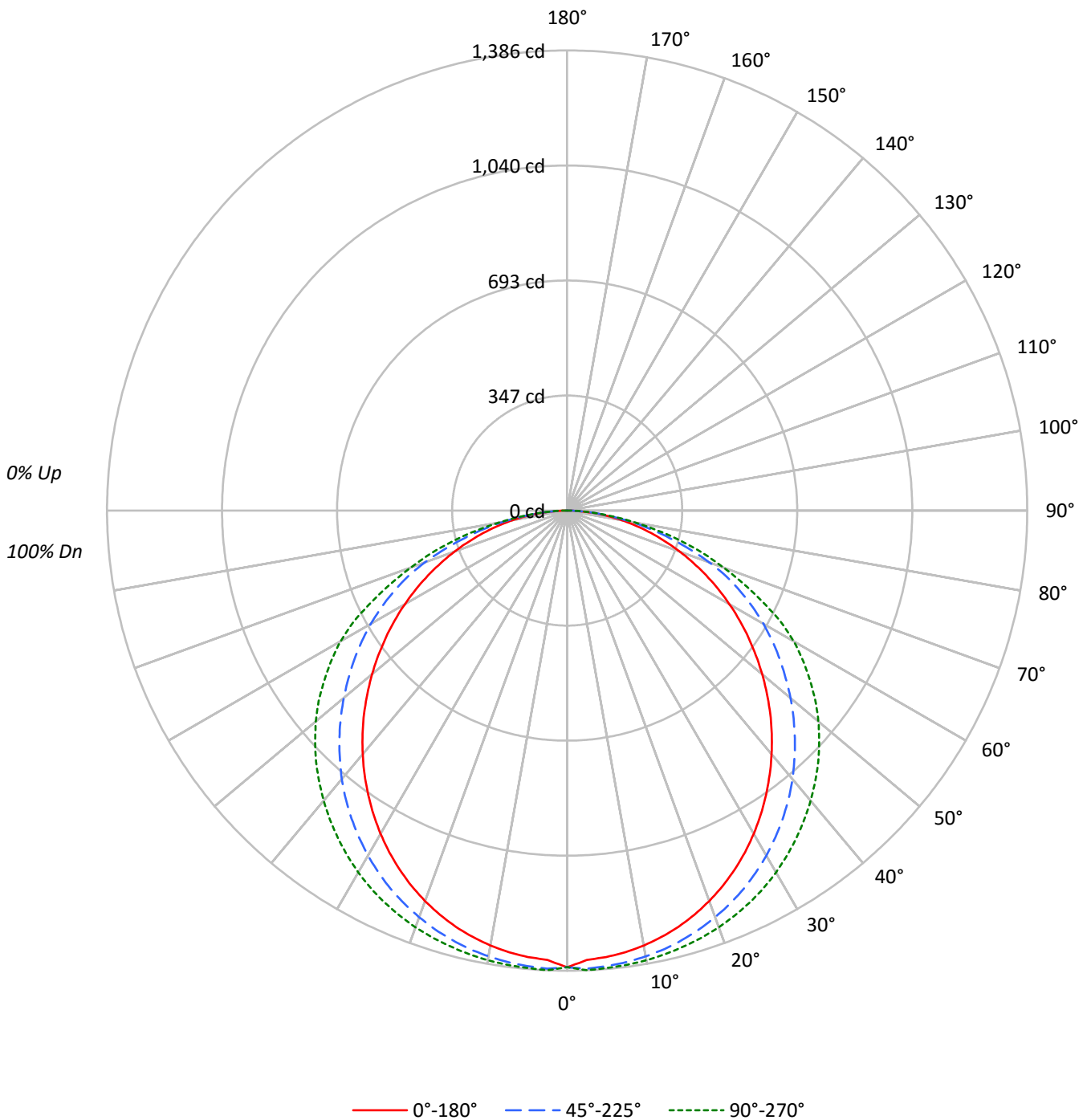
**Summary**

Lumens per Lamp: 2600 (2 lamps)  
Luminaire Lumens: 4217.8 lumens  
Efficiency: 81.1%  
Efficacy: 70.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.42  
Luminous Opening: Rectangular (W 0.92' x L: 3.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 60  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	97	97	97	97	94	94	94	94	90	90	90	86	86	86	83	83	83	81
1	88	84	80	77	86	82	79	76	78	76	73	75	73	71	72	71	69	67
2	80	73	67	62	77	71	66	61	68	64	60	65	62	58	63	60	57	55
3	72	63	57	51	70	62	56	51	60	54	50	57	53	49	55	51	48	46
4	66	56	49	43	64	55	48	43	53	47	42	51	46	42	49	45	41	39
5	61	50	42	37	59	49	42	37	47	41	36	46	40	36	44	39	35	34
6	56	45	37	32	54	44	37	32	43	36	32	41	36	31	40	35	31	29
7	52	41	33	28	50	40	33	28	39	32	28	37	32	28	36	31	27	26
8	48	37	30	25	47	36	30	25	35	29	25	34	29	25	33	28	25	23
9	45	34	27	23	44	33	27	22	32	27	22	32	26	22	31	26	22	21
10	42	31	25	20	41	31	25	20	30	24	20	29	24	20	29	24	20	19

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

	0°	45°	90°
0°	4105	4105	4105
5°	4044	4126	4142
10°	4031	4132	4168
15°	4009	4138	4199
20°	3975	4140	4242
25°	3930	4141	4288
30°	3874	4135	4337
35°	3806	4126	4387
40°	3733	4114	4445
45°	3651	4094	4514
50°	3560	4079	4588
55°	3469	4072	4648
60°	3371	4076	4709
65°	3263	4069	4579
70°	3144	3981	4367
75°	3018	3684	4126
80°	2858	3369	3594
85°	2541	2767	2969



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	130.5	3.1	2.5
10°-20°	376.4	8.9	7.2
20°-30°	577.0	13.7	11.1
30°-40°	705.4	16.7	13.6
40°-50°	746.5	17.7	14.4
50°-60°	697.5	16.5	13.4
60°-70°	556.8	13.2	10.7
70°-80°	333.5	7.9	6.4
80°-90°	94.1	2.2	1.8
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°	1083.9	25.7	20.8
0°-40°	1789.3	42.4	34.4
0°-60°	3233.4	76.7	62.2
0°-90°	4217.8	100.0	81.1
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°	4217.8	100.0	81.1

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1376	1376	1376	1376	1376	
5°	1350	1360	1377	1382	1383	128
15°	1298	1312	1339	1354	1359	366
25°	1194	1213	1257	1289	1302	550
35°	1045	1070	1132	1182	1204	653
45°	865	895	970	1038	1070	667
55°	667	697	783	862	893	596
65°	462	492	576	634	648	458
75°	262	289	320	346	358	277
85°	74	76	81	82	87	85
90°	5	6	6	6	8	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1375.5	1375.5	1375.5	1375.5	1375.5
2.5°	1354.6	1364.6	1381.1	1384.8	1385.7
5°	1349.8	1360.2	1377.3	1382.0	1382.6
7.5°	1341.8	1352.9	1371.5	1377.6	1380.1
10°	1330.1	1342.3	1363.5	1371.9	1375.3
12.5°	1315.4	1328.5	1352.7	1363.9	1368.2
15°	1297.5	1311.5	1339.1	1353.5	1359.0
17.5°	1276.3	1291.3	1322.8	1339.9	1348.7
20°	1251.5	1268.1	1303.4	1325.7	1335.5
22.5°	1224.2	1242.0	1281.9	1308.2	1319.9
25°	1193.5	1213.1	1257.4	1288.7	1302.0
27.5°	1160.1	1181.5	1229.8	1266.0	1281.9
30°	1124.1	1146.9	1199.9	1240.8	1258.4
32.5°	1085.6	1109.9	1167.3	1212.5	1232.1
35°	1044.7	1070.5	1132.3	1181.9	1203.9
37.5°	1002.2	1029.4	1095.7	1149.1	1173.3
40°	958.2	985.9	1056.0	1113.5	1140.8
42.5°	912.4	941.1	1013.6	1076.2	1106.0
45°	865.0	895.0	970.0	1037.5	1069.5
47.5°	816.3	848.1	925.1	997.3	1029.8
50°	766.8	798.8	878.5	955.0	988.0
52.5°	716.9	748.3	830.1	909.7	943.2
55°	666.6	697.2	782.6	861.8	893.2
57.5°	615.9	646.0	733.7	810.4	842.7
60°	564.7	594.6	682.9	757.9	788.8
62.5°	513.6	543.3	630.7	701.2	725.3
65°	462.0	491.8	576.2	633.6	648.4
67.5°	410.9	441.6	519.4	557.1	574.0
70°	360.3	391.3	456.2	484.1	500.4
72.5°	310.6	340.9	386.5	413.8	430.6
75°	261.7	289.3	319.5	346.3	357.8
77.5°	214.0	236.4	256.9	274.7	282.0
80°	166.3	180.6	196.0	204.1	209.1
82.5°	119.7	125.6	136.1	139.4	143.0
85°	74.2	76.2	80.8	82.0	86.7
87.5°	32.6	32.4	33.9	34.6	38.4
90°	5.1	5.5	5.9	5.9	7.7

(END OF REPORT)