

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: 23308

Luminaire Tested: **R2-WL-3N5-24**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 23308  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: R2-WL-3N5-24  
Description: WITH WHITE INTERIOR AND FROSTED LINEAR PRISMATIC PLASTIC LENS  
  
Light Source: THREE SYLVANIA 28 WATT T5 LAMPS  
  
FP28/841. LUMEN RATING = 2600 LMS.  
  
Ballast/Driver: -

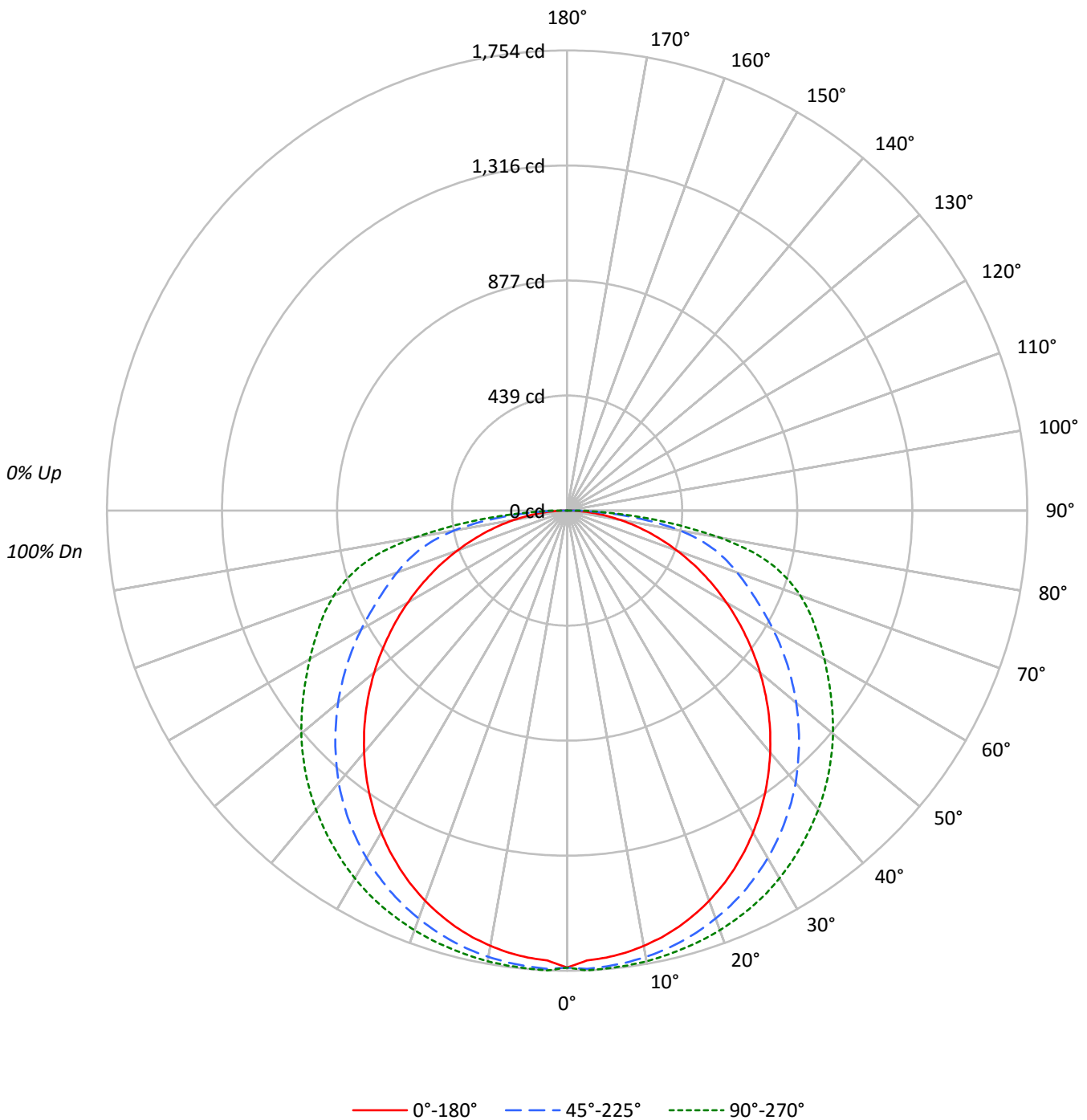
**Summary**

Lumens per Lamp: 2600 (3 lamps)  
Luminaire Lumens: 5782.9 lumens  
Efficiency: 74.1%  
Efficacy: 68.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.38 / 1.43  
Luminous Opening: Rectangular (W 1.95' x L: 3.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 85  
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	86	86	86	86	82	82	82	79	79	79	76	76	76	74
1	79	75	72	68	77	74	70	67	70	68	65	67	65	63	65	63	61	60
2	72	65	59	54	70	63	58	54	61	56	52	58	54	51	56	53	50	48
3	65	56	50	45	63	55	49	44	53	48	43	51	46	43	49	45	42	40
4	59	50	43	37	57	49	42	37	47	41	36	45	40	36	43	39	35	34
5	54	44	37	32	53	43	37	32	42	36	31	40	35	31	39	34	31	29
6	50	40	33	28	49	39	32	27	37	32	27	36	31	27	35	30	27	25
7	46	36	29	24	45	35	29	24	34	28	24	33	28	24	32	27	24	22
8	43	33	26	22	42	32	26	21	31	25	21	30	25	21	29	25	21	20
9	40	30	24	19	39	29	23	19	29	23	19	28	23	19	27	22	19	18
10	38	28	21	17	37	27	21	17	26	21	17	26	21	17	25	20	17	16

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

	0°	45°	90°
0°	2453	2453	2453
5°	2418	2465	2476
10°	2409	2470	2494
15°	2394	2476	2518
20°	2372	2480	2550
25°	2342	2485	2589
30°	2305	2487	2632
35°	2261	2488	2678
40°	2213	2490	2737
45°	2161	2489	2809
50°	2103	2498	2898
55°	2040	2516	3012
60°	1974	2553	3189
65°	1907	2637	3472
70°	1835	2839	3895
75°	1755	3179	4439
80°	1663	3559	4767
85°	1558	3496	4487



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	165.3	2.9	2.1
10°-20°	477.5	8.3	6.1
20°-30°	733.9	12.7	9.4
30°-40°	902.0	15.6	11.6
40°-50°	963.4	16.7	12.4
50°-60°	918.2	15.9	11.8
60°-70°	792.8	13.7	10.2
70°-80°	599.5	10.4	7.7
80°-90°	230.4	4.0	3.0
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°	1376.6	23.8	17.6
0°-40°	2278.6	39.4	29.2
0°-60°	4160.2	71.9	53.3
0°-90°	5782.9	100.0	74.1
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°	5782.9	100.0	74.1

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1742	1742	1742	1742	1742	
5°	1710	1722	1744	1750	1752	163
15°	1642	1661	1698	1719	1727	463
25°	1507	1536	1599	1646	1666	694
35°	1315	1355	1448	1525	1558	823
45°	1085	1132	1250	1363	1411	837
55°	831	883	1025	1166	1227	743
65°	572	628	791	971	1042	567
75°	322	390	584	754	816	341
85°	96	157	216	265	278	109
90°	11	22	30	38	40	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1741.8	1741.8	1741.8	1741.8	1741.8
2.5°	1716.5	1728.0	1748.6	1752.5	1754.5
5°	1710.3	1722.4	1744.2	1749.8	1751.6
7.5°	1699.8	1713.1	1737.2	1744.9	1748.9
10°	1685.0	1699.8	1727.6	1738.8	1744.2
12.5°	1665.8	1682.5	1714.8	1730.4	1736.6
15°	1642.4	1660.7	1698.4	1718.8	1727.0
17.5°	1614.7	1635.2	1678.3	1703.4	1716.3
20°	1582.9	1605.5	1654.7	1687.5	1702.0
22.5°	1547.1	1572.4	1628.9	1667.8	1685.3
25°	1507.3	1535.5	1599.3	1646.1	1666.2
27.5°	1463.9	1494.9	1565.5	1619.9	1644.6
30°	1417.4	1451.4	1529.5	1591.4	1618.4
32.5°	1367.6	1404.6	1490.0	1559.4	1589.5
35°	1315.2	1354.8	1447.5	1524.9	1558.0
37.5°	1260.8	1302.9	1402.9	1488.0	1524.3
40°	1204.0	1247.8	1354.8	1448.3	1488.8
42.5°	1145.5	1190.9	1303.0	1406.5	1451.2
45°	1084.9	1131.9	1249.9	1362.9	1410.6
47.5°	1022.8	1072.5	1195.4	1316.7	1367.8
50°	959.8	1010.3	1140.1	1268.5	1322.8
52.5°	895.6	947.0	1082.4	1218.5	1275.3
55°	830.8	883.2	1024.7	1166.4	1226.9
57.5°	765.9	819.5	965.9	1114.8	1178.7
60°	701.0	755.5	906.4	1065.0	1132.2
62.5°	636.4	691.5	847.3	1017.2	1086.9
65°	572.3	628.0	791.4	971.3	1042.1
67.5°	508.8	566.1	738.9	924.3	996.4
70°	445.6	504.4	689.6	875.8	946.0
72.5°	383.3	444.8	639.0	820.7	887.1
75°	322.5	389.6	584.3	754.1	815.9
77.5°	262.9	339.3	519.5	671.1	722.1
80°	205.1	288.3	438.9	556.2	587.9
82.5°	149.5	229.4	333.7	414.7	431.4
85°	96.4	157.2	216.4	265.1	277.7
87.5°	45.4	77.7	101.5	126.2	132.3
90°	11.4	22.3	30.4	37.9	39.7

(END OF REPORT)