

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: 23297

Luminaire Tested: **R1-WB-2N5-24**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 23297  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: R1-WB-2N5-24  
Description: WITH WHITE INTERIOR AND CLEAR LINEAR PRISMATIC PLASTIC LENS WITH  
WHITE BAFLE  
Light Source: TWO SYLVANIA 28 WATT T5 LAMPS  
  
FP28/841. LUMEN RATING = 2600 LMS.  
  
Ballast/Driver: -

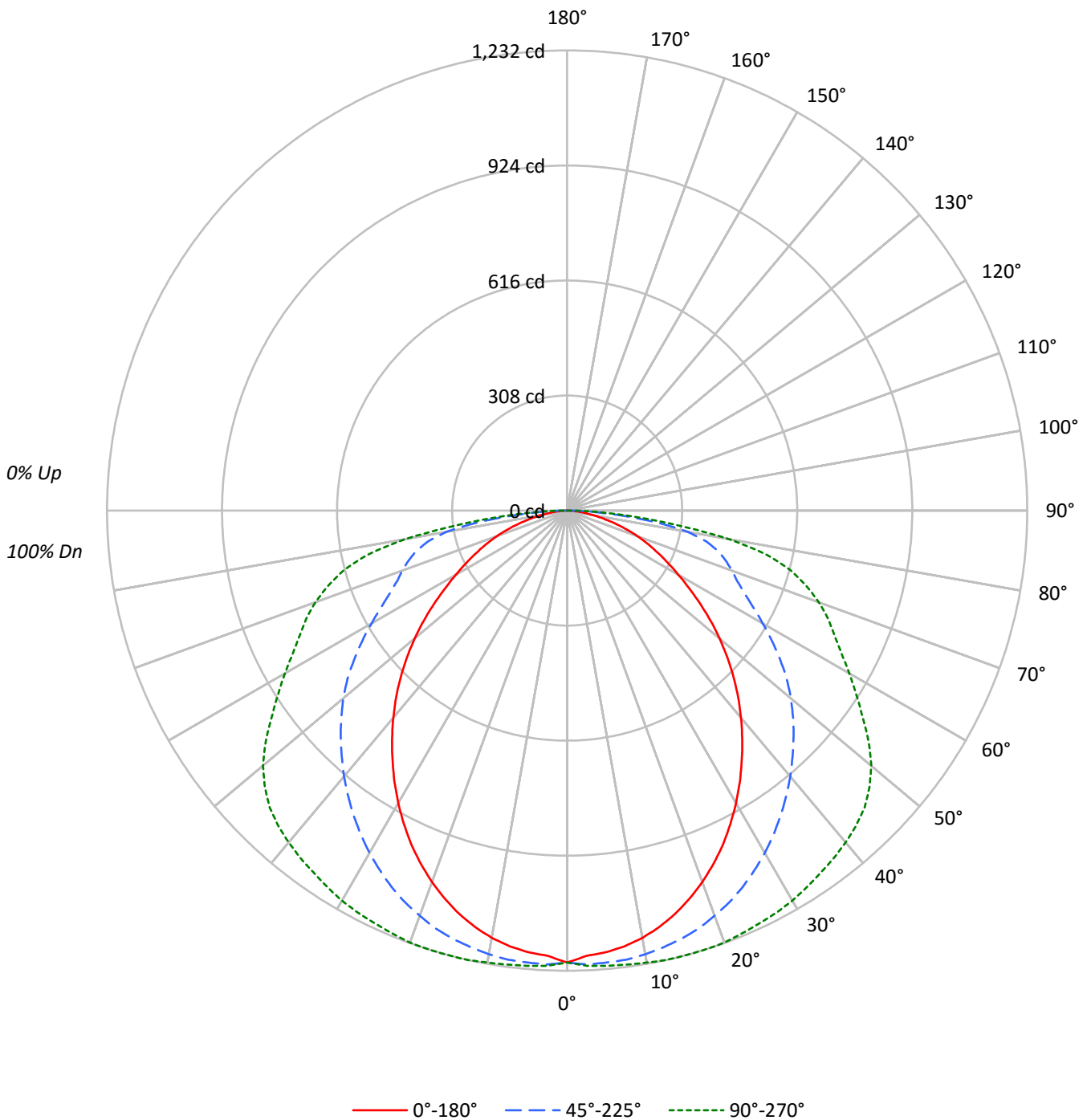
**Summary**

Lumens per Lamp: 2600 (2 lamps)  
Luminaire Lumens: 3948.4 lumens  
Efficiency: 75.9%  
Efficacy: 62.7 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.49 / 1.43  
Luminous Opening: Rectangular (W 1.95' x L: 3.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 63  
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	90	90	90	90	88	88	88	88	84	84	84	81	81	81	77	77	77	76
1	81	77	74	70	79	76	72	69	72	70	67	69	67	65	67	65	63	61
2	73	67	61	56	71	65	60	55	62	58	54	60	56	53	57	54	52	50
3	67	58	51	46	65	57	51	46	54	49	45	52	48	44	50	46	43	41
4	61	51	44	39	59	50	43	38	48	42	38	46	41	37	45	40	37	35
5	56	45	38	33	54	45	38	33	43	37	32	41	36	32	40	35	32	30
6	51	41	34	29	50	40	33	28	39	33	28	37	32	28	36	31	28	26
7	48	37	30	25	46	36	30	25	35	29	25	34	29	25	33	28	24	23
8	44	34	27	22	43	33	27	22	32	26	22	31	26	22	30	25	22	20
9	41	31	24	20	40	30	24	20	30	24	20	29	24	20	28	23	20	18
10	39	28	22	18	38	28	22	18	27	22	18	27	22	18	26	21	18	16

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

	0°	45°	90°
0°	1704	1704	1704
5°	1678	1717	1729
10°	1661	1725	1757
15°	1629	1730	1796
20°	1586	1730	1845
25°	1533	1728	1894
30°	1470	1721	1960
35°	1401	1713	2035
40°	1331	1709	2132
45°	1255	1707	2242
50°	1167	1713	2329
55°	1067	1710	2372
60°	969	1704	2457
65°	894	1744	2631
70°	822	1932	2952
75°	713	2274	3374
80°	576	2651	3567
85°	415	2213	2729



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	115.1	2.9	2.2
10°-20°	333.2	8.4	6.4
20°-30°	510.2	12.9	9.8
30°-40°	624.5	15.8	12.0
40°-50°	667.4	16.9	12.8
50°-60°	623.6	15.8	12.0
60°-70°	522.0	13.2	10.0
70°-80°	407.6	10.3	7.8
80°-90°	144.8	3.7	2.8
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°	958.5	24.3	18.4
0°-40°	1583.0	40.1	30.4
0°-60°	2874.0	72.8	55.3
0°-90°	3948.4	100.0	75.9
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°	3948.4	100.0	75.9

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1210	1210	1210	1210	1210	
5°	1187	1196	1215	1221	1223	113
15°	1118	1140	1186	1220	1232	314
25°	986	1026	1112	1186	1219	454
35°	815	870	997	1123	1184	510
45°	630	691	857	1036	1126	485
55°	434	502	696	891	966	389
65°	268	323	523	719	790	267
75°	131	198	418	575	620	140
85°	26	91	137	163	169	32
90°	1	4	11	15	16	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1209.9	1209.9	1209.9	1209.9	1209.9
2.5°	1193.0	1201.1	1216.3	1218.5	1219.8
5°	1187.0	1196.1	1214.7	1221.0	1223.3
7.5°	1176.6	1188.0	1212.7	1221.7	1225.8
10°	1161.4	1176.0	1206.1	1221.6	1228.8
12.5°	1141.7	1160.8	1196.9	1222.3	1232.3
15°	1117.7	1140.2	1186.4	1219.8	1232.0
17.5°	1089.4	1115.3	1172.7	1213.2	1232.1
20°	1058.1	1087.5	1154.3	1207.8	1230.9
22.5°	1023.9	1057.9	1134.9	1198.7	1224.8
25°	986.5	1025.7	1111.9	1186.1	1219.3
27.5°	946.2	991.1	1085.9	1172.5	1213.6
30°	904.1	953.4	1058.2	1158.3	1205.7
32.5°	860.4	912.1	1028.1	1141.4	1195.0
35°	815.2	870.1	996.6	1122.7	1183.6
37.5°	769.9	827.0	963.6	1102.8	1172.8
40°	724.1	782.0	929.5	1081.8	1159.9
42.5°	677.5	736.6	893.1	1060.0	1144.5
45°	630.0	690.8	857.4	1036.4	1125.8
47.5°	581.7	644.5	820.2	1009.1	1097.4
50°	532.6	597.7	782.1	974.6	1063.1
52.5°	483.4	550.0	741.3	936.2	1017.8
55°	434.5	501.6	696.5	890.7	966.0
57.5°	387.2	453.3	650.7	841.3	918.3
60°	343.9	407.1	605.2	795.0	872.4
62.5°	304.5	363.3	561.7	755.1	827.5
65°	268.2	322.9	523.3	718.8	789.6
67.5°	233.9	286.8	492.7	687.5	756.0
70°	199.7	253.7	469.2	656.5	717.1
72.5°	164.9	223.7	445.2	619.9	672.1
75°	131.1	198.5	417.9	574.6	620.1
77.5°	99.6	179.0	381.5	513.0	548.8
80°	71.0	162.1	326.9	422.8	439.9
82.5°	46.1	137.9	240.5	294.1	291.7
85°	25.7	90.9	137.0	163.4	168.9
87.5°	10.5	34.3	54.5	67.2	70.8
90°	1.4	4.2	11.2	15.0	15.7

(END OF REPORT)