

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: 23296

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 23296
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R1-WL-2N5-24
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

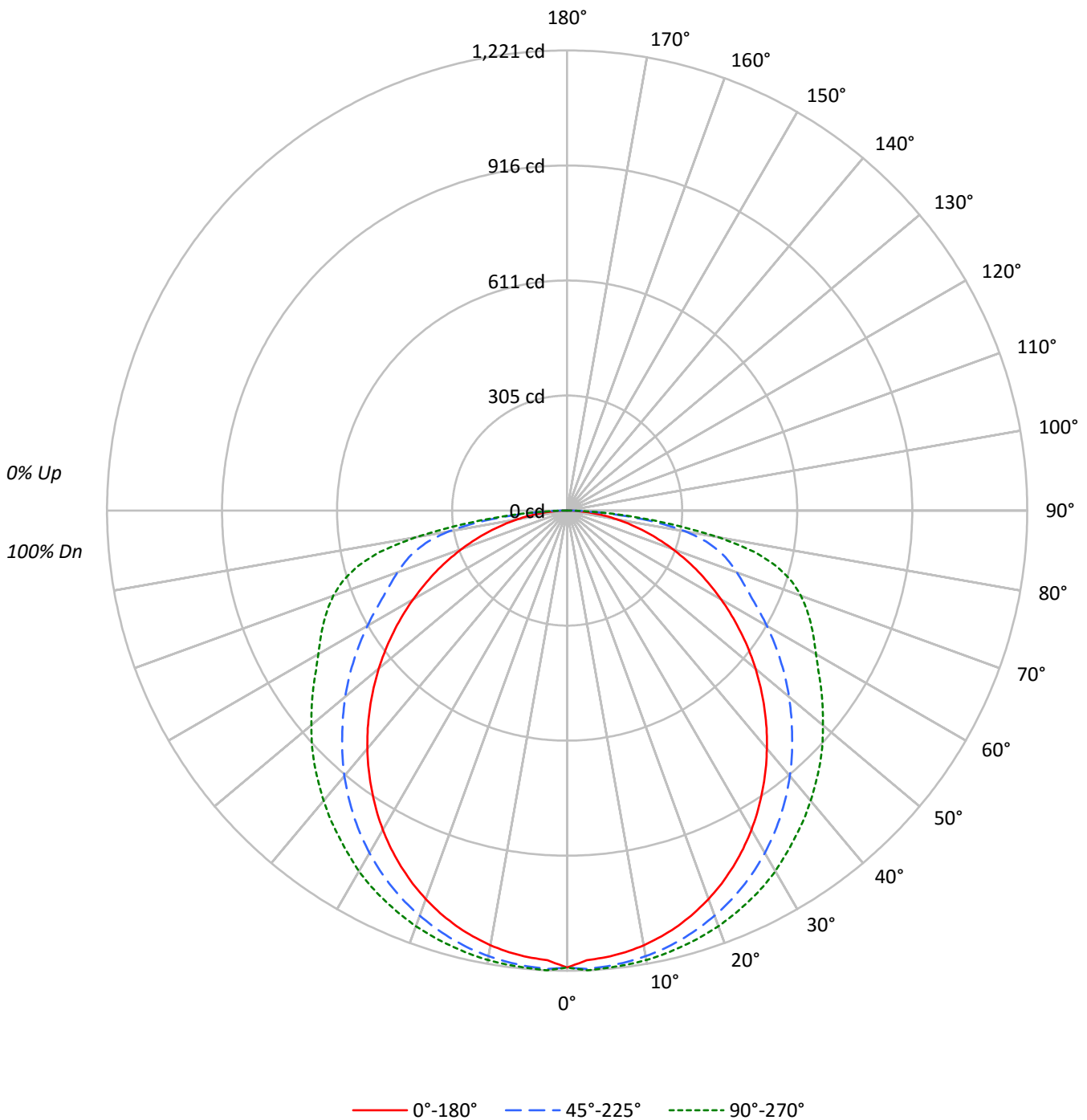
Lumens per Lamp: 2600 (2 lamps)
Luminaire Lumens: 3947.9 lumens
Efficiency: 75.9%
Efficacy: 63.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.35 / 1.41
Luminous Opening: Rectangular (W 1.95' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 62
Input Voltage (V): NR
Input Current (A_{in}): 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	73	70	79	75	72	69	72	69	67	69	67	65	66	64	63	61
2	73	66	61	56	71	65	60	55	62	58	54	60	56	53	57	54	51	50
3	66	58	51	46	64	57	50	45	54	49	44	52	47	44	50	46	43	41
4	61	51	44	38	59	50	43	38	48	42	37	46	41	37	44	40	36	35
5	56	45	38	33	54	44	38	32	43	37	32	41	36	32	40	35	31	30
6	51	41	33	28	50	40	33	28	38	32	28	37	32	28	36	31	27	26
7	47	37	30	25	46	36	30	25	35	29	25	34	28	24	33	28	24	23
8	44	33	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	29	24	20	29	23	20	28	23	19	18
10	39	28	22	18	38	28	22	18	27	22	18	26	21	18	26	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1707	1707	1707
5°	1682	1716	1722
10°	1675	1717	1732
15°	1662	1717	1742
20°	1644	1714	1759
25°	1620	1712	1776
30°	1591	1706	1797
35°	1555	1698	1816
40°	1516	1690	1848
45°	1474	1681	1890
50°	1429	1684	1941
55°	1381	1695	2019
60°	1329	1724	2147
65°	1280	1791	2379
70°	1224	1973	2718
75°	1161	2279	3141
80°	1089	2601	3313
85°	1000	2267	2580



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	114.9	2.9	2.2
10°-20°	331.0	8.4	6.4
20°-30°	505.4	12.8	9.7
30°-40°	615.7	15.6	11.8
40°-50°	651.9	16.5	12.5
50°-60°	618.3	15.7	11.9
60°-70°	539.5	13.7	10.4
70°-80°	421.0	10.7	8.1
80°-90°	150.2	3.8	2.9
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°	951.3	24.1	18.3
0°-40°	1567.0	39.7	30.1
0°-60°	2837.2	71.9	54.6
0°-90°	3947.9	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°	3947.9	100.0	75.9

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1212	1212	1212	1212	1212	
5°	1190	1198	1214	1218	1218	113
15°	1140	1153	1178	1191	1195	321
25°	1043	1061	1102	1131	1143	480
35°	904	930	988	1036	1056	566
45°	740	770	844	919	949	571
55°	562	595	690	784	822	503
65°	384	422	537	665	714	380
75°	213	265	419	539	577	226
85°	62	112	140	156	160	70
90°	4	7	8	9	10	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1212.3	1212.3	1212.3	1212.3	1212.3
2.5°	1194.1	1202.7	1217.5	1220.4	1221.1
5°	1189.6	1198.5	1214.0	1217.8	1218.2
7.5°	1182.1	1191.6	1208.3	1213.6	1215.4
10°	1171.2	1181.7	1200.7	1208.4	1211.0
12.5°	1157.3	1169.0	1190.5	1201.0	1204.2
15°	1140.3	1153.0	1177.5	1190.9	1195.2
17.5°	1120.0	1134.2	1161.9	1178.4	1185.4
20°	1096.8	1112.3	1143.9	1165.3	1173.7
22.5°	1071.2	1087.9	1124.1	1148.8	1159.1
25°	1042.6	1061.0	1101.6	1130.6	1142.8
27.5°	1011.5	1031.2	1076.4	1110.5	1125.5
30°	978.2	999.4	1049.2	1088.0	1104.9
32.5°	942.4	965.6	1019.9	1062.4	1080.8
35°	904.4	929.6	988.0	1036.4	1056.3
37.5°	865.2	892.2	954.4	1009.2	1031.9
40°	824.7	853.4	919.5	978.9	1005.3
42.5°	783.1	812.5	882.5	948.9	976.9
45°	740.3	770.1	844.3	918.7	949.2
47.5°	696.6	728.1	806.4	886.0	918.8
50°	652.5	684.2	768.9	851.7	885.9
52.5°	607.6	639.1	730.0	818.2	854.2
55°	562.4	595.4	690.4	783.5	822.5
57.5°	517.3	551.6	651.0	749.3	790.5
60°	472.0	507.5	612.2	718.1	762.4
62.5°	427.9	464.5	573.2	690.5	738.0
65°	384.2	422.1	537.4	664.8	714.1
67.5°	340.2	380.6	506.7	640.3	688.8
70°	297.4	340.3	479.1	613.2	660.2
72.5°	255.2	301.3	450.9	581.2	625.0
75°	213.4	265.3	418.8	539.3	577.3
77.5°	173.1	234.1	377.2	481.1	511.1
80°	134.3	203.3	320.7	395.9	408.6
82.5°	97.1	164.6	239.8	277.8	279.0
85°	61.9	111.9	140.3	156.3	159.7
87.5°	28.2	48.8	56.4	58.8	60.4
90°	3.7	6.9	7.8	8.6	9.5

(END OF REPORT)