

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: ITL67618

Luminaire Tested: **R2-WL-2N5-1C-UNV-24-T1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: ITL67618
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R2-WL-2N5-1C-UNV-24-T1
Description: FORMED WHITE PAINTED METAL REFLECTOR, FORMED WHITE PAINTED METAL BALLAST COVER, FABRICATED WHITE PAINTED METAL END PLATES, EXTRUDED FROSTED LINEAR PRISMATIC PLASTIC DIFFUSER, DIFFUSER BOTTOM PRISMS UP AND PARALLEL WITH LAMPS, SIDE PRISMS OUT AND PARALLEL WITH LAMPS, DIFFUSER FROSTED BOTH SIDES.
Light Source: TWO 28-WATT T-5 SYLVANIA FP28/835 LINEAR FLUORESCENTS.
Ballast/Driver: GE GE228MVPS-A

Summary

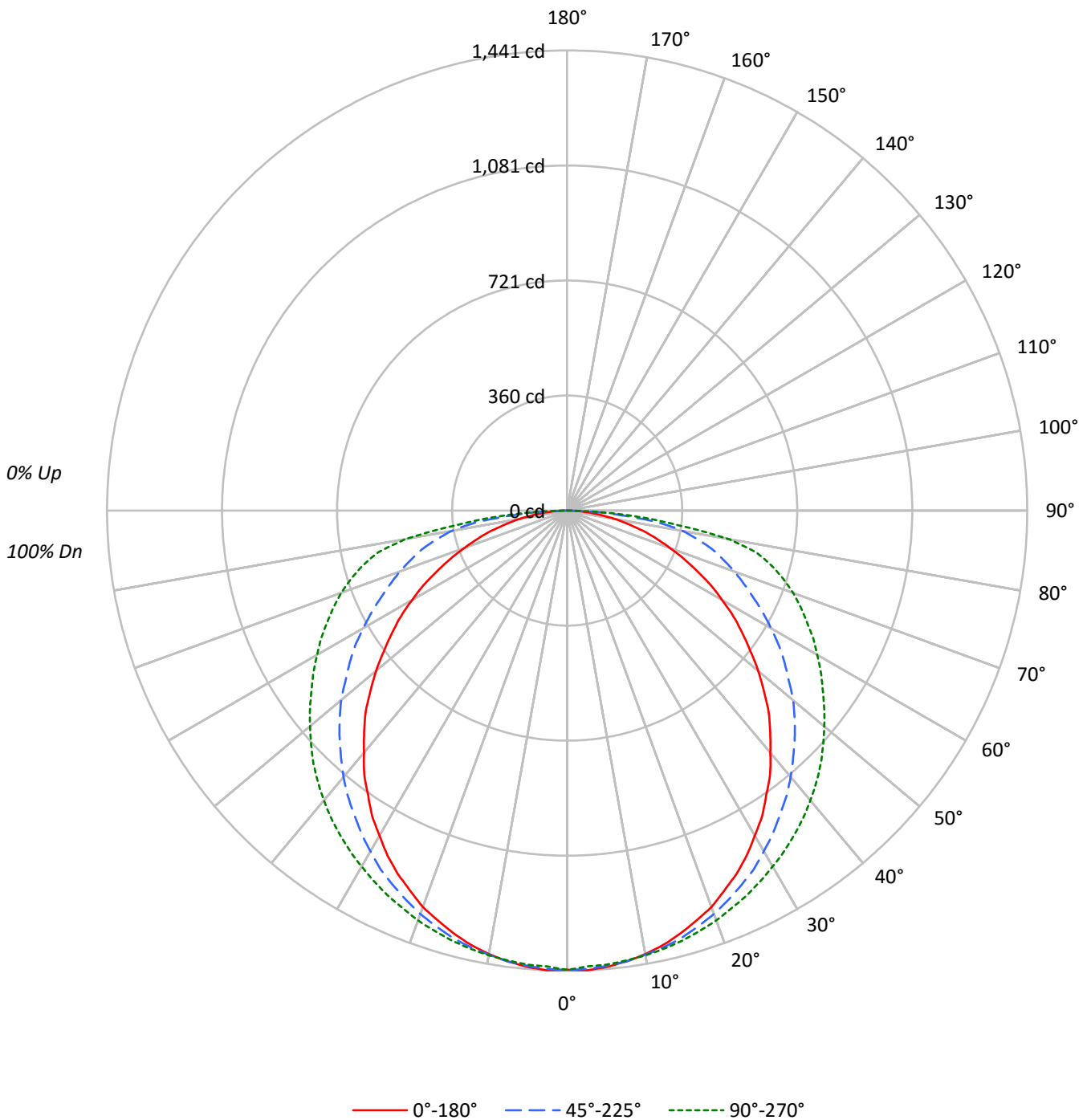
Lumens per Lamp: 2600 (2 lamps)
Luminaire Lumens: 4682.2 lumens
Efficiency: 90.0%
Efficacy: 74.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.34 / 1.41
Luminous Opening: Rectangular (W 1.93' x L: 3.91' x H: 0')
CIE Type: Direct

Input Watts (W): 63.1
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	107	107	107	107	105	105	105	105	100	100	100	96	96	96	92	92	92	90
1	96	92	87	83	94	89	85	82	86	82	79	82	79	77	79	76	74	72
2	87	79	72	66	84	77	71	65	74	68	64	71	66	62	68	64	61	59
3	79	68	60	54	76	67	60	54	64	58	53	62	56	52	59	55	51	49
4	72	60	52	45	70	59	51	45	57	50	44	55	49	44	53	47	43	41
5	66	54	45	39	64	53	45	39	51	44	38	49	43	38	47	42	37	35
6	61	48	40	34	59	47	39	33	46	38	33	44	38	33	43	37	32	31
7	56	44	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29	27
8	52	40	32	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24
9	49	36	29	24	48	36	28	23	35	28	23	34	28	23	33	27	23	21
10	46	34	26	21	45	33	26	21	32	26	21	31	25	21	30	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2048	2048	2048
5°	2050	2046	2040
10°	2039	2042	2045
15°	2021	2042	2055
20°	2002	2037	2070
25°	1972	2032	2090
30°	1932	2026	2116
35°	1890	2020	2156
40°	1841	2025	2203
45°	1799	2030	2262
50°	1730	2047	2329
55°	1664	2063	2426
60°	1598	2099	2575
65°	1516	2163	2794
70°	1428	2319	3135
75°	1359	2592	3643
80°	1247	3010	4216
85°	1111	2827	3628



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	136.0	2.9	2.6
10°-20°	390.6	8.3	7.5
20°-30°	596.0	12.7	11.5
30°-40°	729.3	15.6	14.0
40°-50°	777.8	16.6	15.0
50°-60°	741.2	15.8	14.3
60°-70°	639.1	13.6	12.3
70°-80°	486.8	10.4	9.4
80°-90°	185.5	4.0	3.6
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°	1122.6	24.0	21.6
0°-40°	1851.8	39.6	35.6
0°-60°	3370.8	72.0	64.8
0°-90°	4682.2	100.0	90.0
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°	4682.2	100.0	90.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1438	1438	1438	1438	1438	
5°	1434	1433	1431	1427	1427	136
15°	1371	1376	1385	1391	1394	387
25°	1255	1265	1293	1319	1330	578
35°	1087	1115	1162	1219	1240	681
45°	893	925	1008	1092	1123	686
55°	670	718	831	937	977	600
65°	450	518	642	781	829	447
75°	247	321	471	611	662	259
85°	68	131	173	210	222	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1438	1438	1438	1438	1438
2.5°	1441	1440	1437	1430	1429
5°	1434	1433	1431	1427	1427
7.5°	1424	1424	1424	1421	1421
10°	1410	1412	1412	1414	1414
12.5°	1393	1394	1400	1403	1405
15°	1371	1376	1385	1391	1394
17.5°	1346	1354	1365	1377	1380
20°	1321	1327	1344	1359	1366
22.5°	1287	1300	1319	1341	1347
25°	1255	1265	1293	1319	1330
27.5°	1218	1232	1266	1297	1309
30°	1175	1192	1232	1271	1287
32.5°	1136	1156	1199	1246	1265
35°	1087	1115	1162	1219	1240
37.5°	1044	1067	1128	1190	1214
40°	990	1023	1089	1162	1185
42.5°	941	971	1048	1126	1155
45°	893	925	1008	1092	1123
47.5°	835	876	966	1056	1087
50°	781	822	924	1017	1051
52.5°	724	772	875	981	1015
55°	670	718	831	937	977
57.5°	618	667	787	898	942
60°	561	613	737	855	904
62.5°	508	566	691	817	869
65°	450	518	642	781	829
67.5°	396	464	599	740	792
70°	343	417	557	701	753
72.5°	294	364	513	655	709
75°	247	321	471	611	662
77.5°	195	277	420	560	607
80°	152	232	367	495	514
82.5°	106	186	291	357	350
85°	68	131	173	210	222
87.5°	30	56	77	97	95
90°	0	0	0	0	0

(END OF REPORT)