

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: ITL67621

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: ITL67621  
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: R2-WD-2N5-1C-UNV-24-T1  
Description: FORMED WHITE PAINTED METAL REFLECTOR, FORMED WHITE PAINTED METAL BALLAST COVER, FABRICATED WHITE PAINTED METAL END PLATES, EXTRUDED CLEAR PLASTIC LENS WITH LINEAR PRISMATIC SIDES AND FROSTED PLASTIC OVERLAY WITH WHITE GRID PATTERN ON TOP SURFACE, LENS PRISMS OUT AND PARALLEL WITH LAMPS, OVERLAY FROSTED SIDE DOWN.  
Light Source: TWO 28-WATT T-5 SYLVANIA FP28/835 LINEAR FLUORESCENTS.  
Ballast/Driver: GE GE228MVPS-A

**Summary**

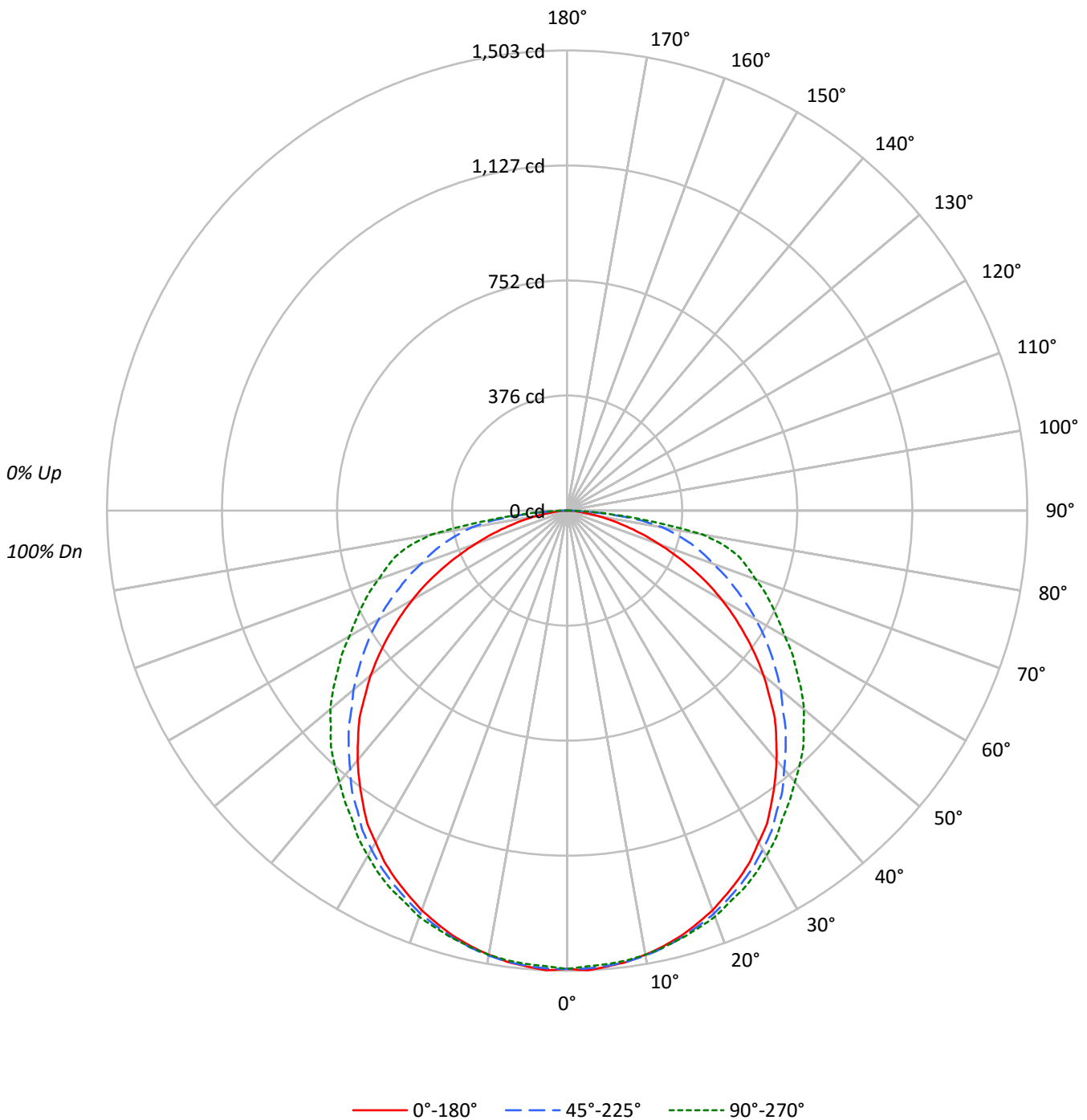
Lumens per Lamp: 2600 (2 lamps)  
Luminaire Lumens: 4597.3 lumens  
Efficiency: 88.4%  
Efficacy: 73.1 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 1.93' x L: 3.91' x H: 0')  
CIE Type: Direct

Input Watts (W): 62.9  
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



TEST NUMBER: ITL67621  
CATALOG NUMBER: R2-WD-2N5-1C-UNV-24-T1

### Luminous Intensity Polar Plot





TEST NUMBER: ITL67621

CATALOG NUMBER: R2-WD-2N5-1C-UNV-24-T1

**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	105	105	105	105	103	103	103	103	98	98	98	94	94	94	90	90	90	88
1	95	91	87	83	93	89	85	81	85	82	79	81	79	76	78	76	74	72
2	86	78	72	66	84	77	71	66	73	68	64	70	66	63	68	64	61	59
3	78	68	61	55	76	67	60	54	64	58	53	62	57	52	59	55	51	49
4	71	60	52	46	69	59	52	46	57	50	45	55	49	44	53	48	44	42
5	66	54	46	39	64	53	45	39	51	44	39	49	43	38	47	42	38	36
6	61	48	40	34	59	48	40	34	46	39	34	44	38	34	43	37	33	31
7	56	44	36	30	55	43	36	30	42	35	30	40	34	30	39	34	29	28
8	52	40	32	27	51	39	32	27	38	31	27	37	31	26	36	30	26	25
9	49	37	29	24	47	36	29	24	35	29	24	34	28	24	33	28	24	22
10	46	34	27	22	45	33	26	22	32	26	22	32	26	22	31	25	22	20

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

	0°	45°	90°
0°	2132	2132	2132
5°	2137	2134	2126
10°	2130	2134	2130
15°	2120	2129	2132
20°	2105	2123	2140
25°	2085	2114	2142
30°	2057	2102	2141
35°	2024	2078	2133
40°	1978	2051	2151
45°	1931	2032	2197
50°	1857	2018	2238
55°	1765	2016	2272
60°	1663	2025	2338
65°	1520	2049	2490
70°	1328	2111	2727
75°	1106	2306	3197
80°	837	2592	3666
85°	490	2092	2467



TEST NUMBER: ITL67621

CATALOG NUMBER: R2-WD-2N5-1C-UNV-24-T1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	141.9	3.1	2.7
10°-20°	407.5	8.9	7.8
20°-30°	619.9	13.5	11.9
30°-40°	749.2	16.3	14.4
40°-50°	784.4	17.1	15.1
50°-60°	728.3	15.8	14.0
60°-70°	596.2	13.0	11.5
70°-80°	426.8	9.3	8.2
80°-90°	143.1	3.1	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°	1169.2	25.4	22.5
0°-40°	1918.5	41.7	36.9
0°-60°	3431.2	74.6	66.0
0°-90°	4597.3	100.0	88.4
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°	4597.3	100.0	88.4

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1497	1497	1497	1497	1497	
5°	1495	1495	1493	1488	1487	142
15°	1438	1442	1444	1446	1446	406
25°	1327	1331	1345	1359	1363	611
35°	1164	1175	1195	1220	1227	728
45°	959	972	1009	1068	1091	736
55°	711	737	812	893	915	636
65°	451	501	608	705	739	447
75°	201	283	419	535	581	215
85°	30	101	128	154	151	41
90°	0	0	0	0	0	



TEST NUMBER: ITL67621

CATALOG NUMBER: R2-WD-2N5-1C-UNV-24-T1

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1497	1497	1497	1497	1497
2.5°	1503	1500	1497	1491	1490
5°	1495	1495	1493	1488	1487
7.5°	1487	1486	1486	1484	1482
10°	1473	1476	1476	1474	1473
12.5°	1457	1460	1462	1460	1460
15°	1438	1442	1444	1446	1446
17.5°	1414	1421	1423	1429	1429
20°	1389	1394	1401	1407	1412
22.5°	1358	1365	1373	1385	1385
25°	1327	1331	1345	1359	1363
27.5°	1293	1297	1314	1331	1335
30°	1251	1256	1278	1295	1302
32.5°	1214	1218	1242	1261	1269
35°	1164	1175	1195	1220	1227
37.5°	1115	1126	1155	1181	1194
40°	1064	1079	1103	1144	1157
42.5°	1011	1024	1056	1103	1125
45°	959	972	1009	1068	1091
47.5°	895	915	954	1027	1047
50°	838	856	911	985	1010
52.5°	775	800	860	944	964
55°	711	737	812	893	915
57.5°	648	678	763	845	872
60°	584	611	711	794	821
62.5°	520	553	661	749	779
65°	451	501	608	705	739
67.5°	385	438	560	660	700
70°	319	386	507	621	655
72.5°	258	331	465	575	618
75°	201	283	419	535	581
77.5°	148	235	367	487	526
80°	102	189	316	425	447
82.5°	59	147	240	294	286
85°	30	101	128	154	151
87.5°	12	34	50	57	56
90°	0	0	0	0	0

(END OF REPORT)