

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: ITL67591

Luminaire Tested: **R3-WL-2T8-1C-UNV-24-T1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: ITL67591  
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: R3-WL-2T8-1C-UNV-24-T1  
Description: FABRICATED METAL HOUSING WITH WHITE PAINTED INTERIOR FINISH, TWO FORMED WHITE PAINTED OUTBOARD REFLECTORS, ONE EXTRUDED FROSTED PLASTIC DIFFUSER BELOW EACH REFLECTOR, EXTRUDED FROSTED LINEAR PRISMATIC PLASTIC DIFFUSER BELOW LAMPS, DIFFUSER BOTTOM PRISMS UP AND PARALLEL WITH LAMPS, SIDE PRISMS OUT AND PARALLEL WITH LAMPS, DIFFUSERS FROSTED BOTH SIDES.  
Light Source: TWO 32-WATT T-8 FO32/835 LINEAR FLUORESCENTS.  
Ballast/Driver: GE GE-232-MV-N

**Summary**

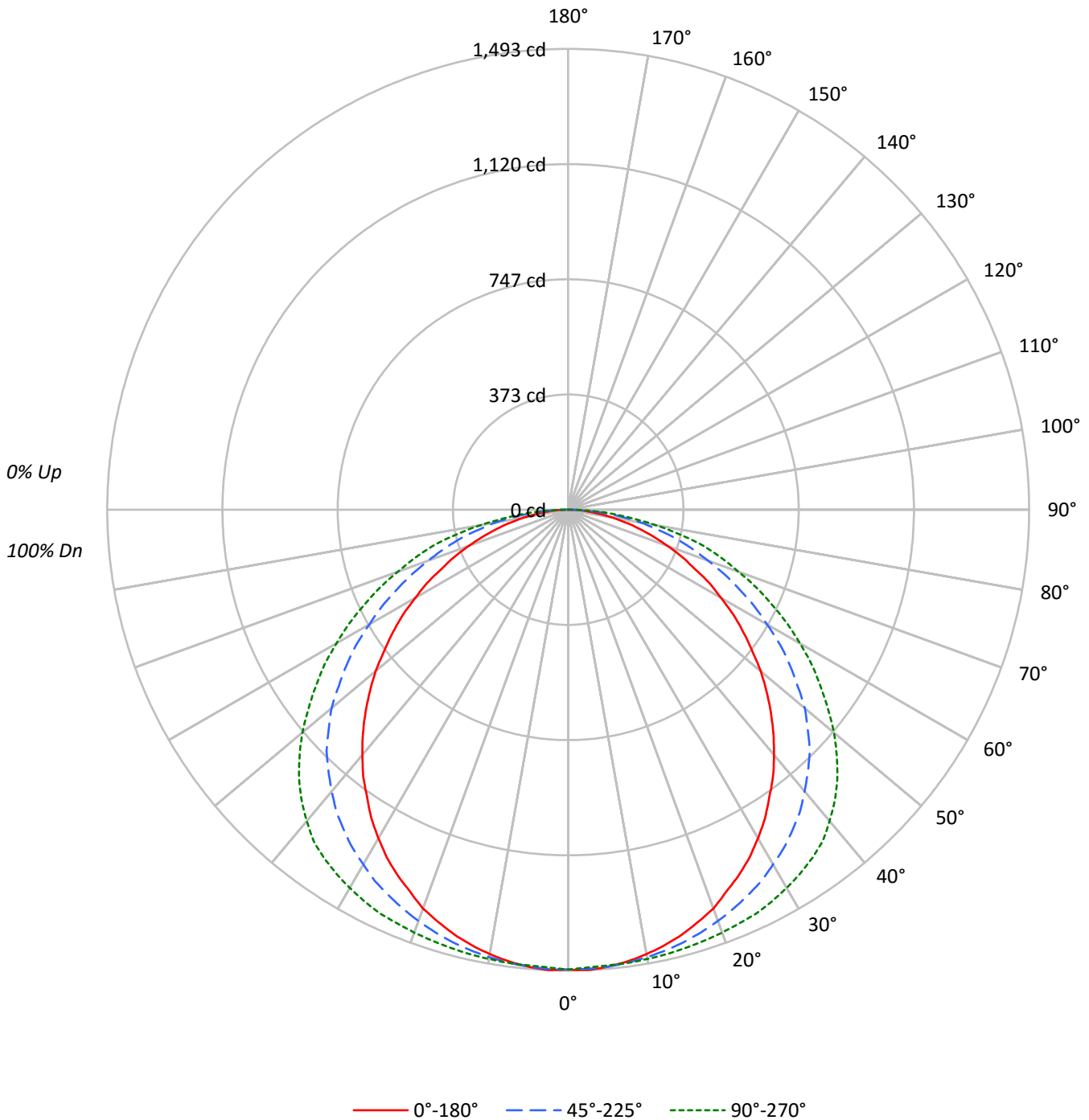
Lumens per Lamp: 2950 (2 lamps)  
Luminaire Lumens: 4679.3 lumens  
Efficiency: 79.3%  
Efficacy: 85.4 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.42 / 1.45  
Luminous Opening: Rectangular (W 1.8' x L: 3.91' x H: 0')  
CIE Type: Direct

Input Watts (W): 54.8  
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



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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	94	94	94	94	92	92	92	92	88	88	88	84	84	84	81	81	81	79
1	86	82	78	75	84	80	77	74	77	74	71	73	71	69	71	69	67	65
2	78	71	65	60	76	69	64	60	67	62	58	64	60	57	61	58	56	54
3	71	62	55	50	69	61	54	49	58	53	49	56	52	48	54	50	47	45
4	65	55	48	42	63	54	47	42	52	46	41	50	45	41	48	44	40	38
5	59	49	41	36	58	48	41	36	46	40	35	45	39	35	43	38	35	33
6	55	44	36	31	53	43	36	31	42	35	31	40	35	31	39	34	30	29
7	51	40	32	27	49	39	32	27	38	32	27	37	31	27	35	31	27	25
8	47	36	29	24	46	36	29	24	34	28	24	33	28	24	32	28	24	22
9	44	33	26	22	43	33	26	22	32	26	22	31	25	22	30	25	21	20
10	41	30	24	20	40	30	24	20	29	24	20	28	23	20	28	23	19	18

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

	0°	45°	90°
0°	2285	2285	2285
5°	2288	2288	2281
10°	2277	2292	2302
15°	2262	2302	2334
20°	2244	2314	2379
25°	2212	2332	2442
30°	2176	2350	2506
35°	2127	2372	2580
40°	2076	2384	2636
45°	2013	2401	2674
50°	1942	2388	2682
55°	1853	2342	2668
60°	1751	2282	2659
65°	1637	2221	2645
70°	1533	2161	2632
75°	1416	2151	2690
80°	1281	2102	2535
85°	1126	1918	2375



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	141.3	3.0	2.4
10°-20°	409.4	8.8	6.9
20°-30°	635.1	13.6	10.8
30°-40°	790.3	16.9	13.4
40°-50°	841.8	18.0	14.3
50°-60°	769.9	16.5	13.0
60°-70°	599.6	12.8	10.2
70°-80°	372.8	8.0	6.3
80°-90°	119.0	2.5	2.0
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°	1185.8	25.3	20.1
0°-40°	1976.1	42.2	33.5
0°-60°	3587.8	76.7	60.8
0°-90°	4679.3	100.0	79.3
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°	4679.3	100.0	79.3

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1490	1490	1490	1490	1490	
5°	1486	1486	1486	1483	1482	141
15°	1425	1435	1450	1464	1470	402
25°	1307	1330	1378	1423	1443	602
35°	1136	1182	1267	1349	1378	711
45°	928	985	1107	1201	1233	716
55°	693	755	876	967	998	620
65°	451	519	612	705	729	451
75°	239	284	363	428	454	253
85°	64	90	109	129	135	72
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1490	1490	1490	1490	1490
2.5°	1493	1492	1489	1485	1484
5°	1486	1486	1486	1483	1482
7.5°	1476	1478	1480	1480	1481
10°	1462	1467	1472	1476	1478
12.5°	1445	1450	1462	1471	1475
15°	1425	1435	1450	1464	1470
17.5°	1400	1413	1435	1457	1464
20°	1375	1388	1418	1448	1458
22.5°	1339	1361	1399	1436	1450
25°	1307	1330	1378	1423	1443
27.5°	1271	1298	1356	1409	1430
30°	1229	1260	1327	1391	1415
32.5°	1186	1221	1300	1372	1398
35°	1136	1182	1267	1349	1378
37.5°	1090	1134	1233	1320	1354
40°	1037	1089	1191	1289	1317
42.5°	984	1036	1149	1246	1278
45°	928	985	1107	1201	1233
47.5°	871	931	1052	1151	1180
50°	814	876	1001	1090	1124
52.5°	751	818	936	1032	1061
55°	693	755	876	967	998
57.5°	635	697	814	904	936
60°	571	632	744	833	867
62.5°	516	575	681	769	800
65°	451	519	612	705	729
67.5°	398	454	549	631	660
70°	342	398	482	566	587
72.5°	289	336	420	491	521
75°	239	284	363	428	454
77.5°	188	234	295	360	372
80°	145	180	238	277	287
82.5°	100	136	172	200	201
85°	64	90	109	129	135
87.5°	29	43	57	62	63
90°	0	0	0	0	0

(END OF REPORT)