

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: ITL67601

Luminaire Tested: **R3-WD-2N5-1C-UNV-24-T1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: ITL67601
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WD-2N5-1C-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 CLEAR PLASTIC LENS BELOW LAMPS 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, DIFFUSERS FROSTED BOTH SIDES.
Light Source: TWO 28-WATT T-5 SYLVANIA FP28/835 LINEAR FLUORESCENTS.
Ballast/Driver: GE GE228MVPS-A

Summary

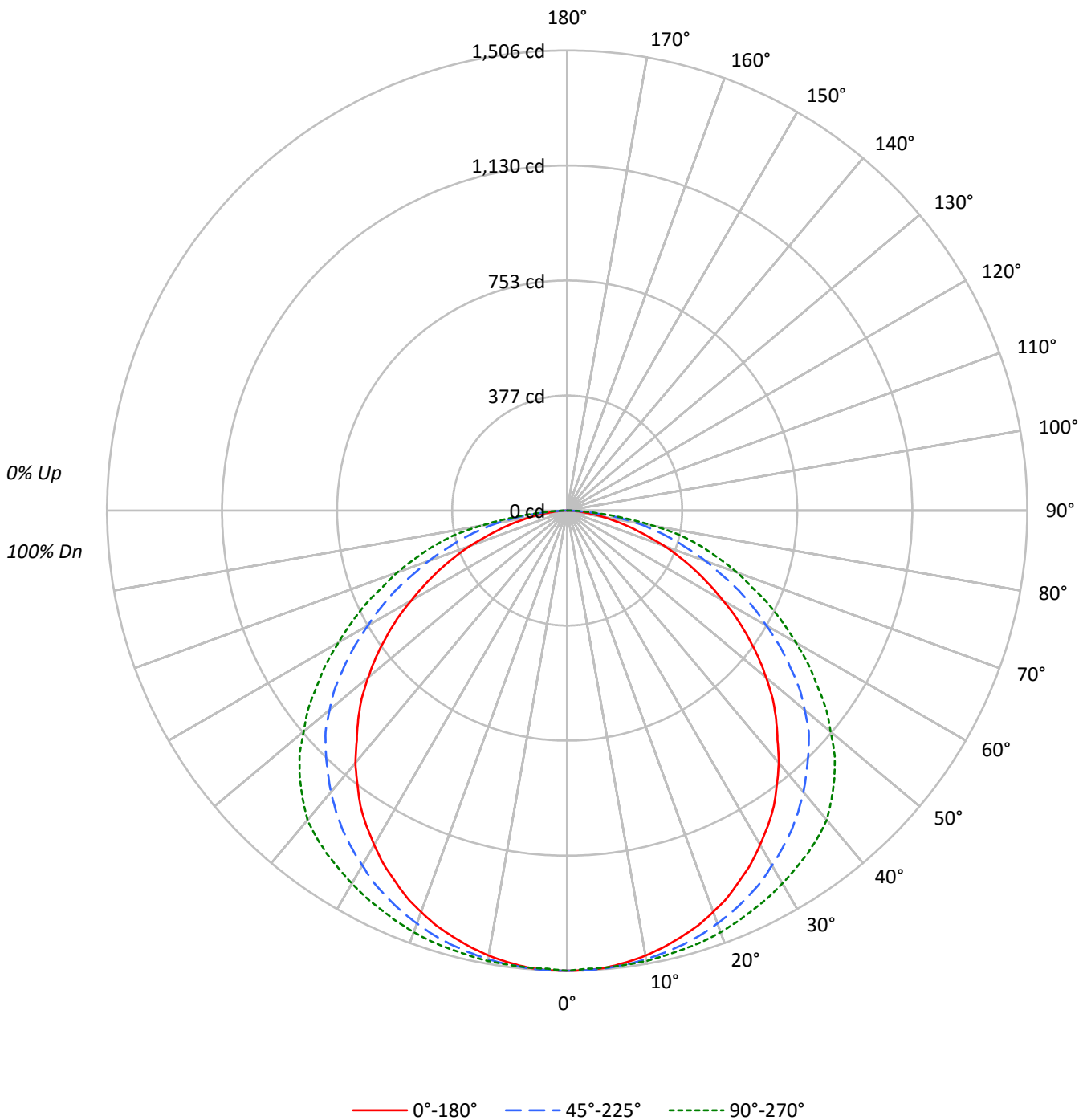
Lumens per Lamp: 2600 (2 lamps)
Luminaire Lumens: 4694.1 lumens
Efficiency: 90.3%
Efficacy: 74.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.4 / 1.46
Luminous Opening: Rectangular (W 1.8' x L: 3.91' x H: 0')
CIE Type: Direct

Input Watts (W): 63.3
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										
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	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						90														
1	98	93	89	86	95	91	88	84	87	84	82	84	81	79	81	79	77	75						75														
2	89	81	75	69	86	79	73	68	76	71	67	73	69	65	70	67	64	62						62														
3	81	71	63	57	78	69	62	57	67	61	56	64	59	55	62	57	54	52						52														
4	74	63	54	48	72	61	54	48	59	52	47	57	51	47	55	50	46	44						44														
5	68	56	47	41	66	55	47	41	53	46	41	51	45	40	49	44	40	38						38														
6	62	50	42	36	61	49	41	36	48	41	35	46	40	35	45	39	35	33						33														
7	58	45	37	32	56	45	37	31	43	36	31	42	36	31	41	35	31	29						29														
8	54	41	33	28	52	41	33	28	39	33	28	38	32	28	37	32	27	26						26														
9	50	38	30	25	49	37	30	25	36	30	25	35	29	25	34	29	25	23						23														
10	47	35	28	23	46	34	27	23	33	27	23	33	27	22	32	26	22	21						21														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2309	2309	2309
5°	2311	2314	2311
10°	2303	2322	2331
15°	2293	2334	2358
20°	2281	2347	2396
25°	2261	2362	2438
30°	2236	2375	2495
35°	2209	2394	2567
40°	2158	2408	2646
45°	2097	2422	2683
50°	2028	2422	2686
55°	1933	2382	2671
60°	1806	2309	2653
65°	1676	2253	2649
70°	1516	2161	2650
75°	1292	2086	2702
80°	1033	2014	2552
85°	739	1425	1707



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	143.0	3.0	2.8
10°-20°	414.9	8.8	8.0
20°-30°	642.6	13.7	12.4
30°-40°	798.4	17.0	15.4
40°-50°	854.7	18.2	16.4
50°-60°	780.9	16.6	15.0
60°-70°	599.2	12.8	11.5
70°-80°	362.8	7.7	7.0
80°-90°	97.5	2.1	1.9
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°	1200.5	25.6	23.1
0°-40°	1999.0	42.6	38.4
0°-60°	3634.6	77.4	69.9
0°-90°	4694.1	100.0	90.3
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°	4694.1	100.0	90.3

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1506	1506	1506	1506	1506	
5°	1501	1504	1503	1503	1501	143
15°	1444	1457	1470	1483	1485	408
25°	1336	1357	1396	1429	1441	616
35°	1180	1206	1279	1342	1371	736
45°	967	1013	1117	1208	1237	746
55°	723	772	891	971	999	646
65°	462	514	621	694	730	457
75°	218	264	352	426	456	233
85°	42	67	81	91	97	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1506	1506	1506	1506	1506
2.5°	1506	1510	1506	1503	1501
5°	1501	1504	1503	1503	1501
7.5°	1491	1496	1498	1500	1499
10°	1479	1485	1491	1495	1497
12.5°	1463	1472	1481	1491	1491
15°	1444	1457	1470	1483	1485
17.5°	1424	1435	1456	1472	1479
20°	1398	1413	1438	1462	1468
22.5°	1371	1385	1419	1445	1456
25°	1336	1357	1396	1429	1441
27.5°	1303	1325	1372	1412	1427
30°	1263	1288	1341	1392	1409
32.5°	1223	1250	1311	1369	1390
35°	1180	1206	1279	1342	1371
37.5°	1128	1161	1242	1318	1348
40°	1078	1114	1203	1287	1322
42.5°	1019	1063	1160	1253	1281
45°	967	1013	1117	1208	1237
47.5°	913	954	1073	1156	1188
50°	850	897	1015	1099	1126
52.5°	789	834	959	1035	1069
55°	723	772	891	971	999
57.5°	660	710	824	906	936
60°	589	643	753	832	865
62.5°	525	581	688	766	797
65°	462	514	621	694	730
67.5°	399	449	546	625	654
70°	338	382	482	554	591
72.5°	272	323	414	489	521
75°	218	264	352	426	456
77.5°	166	209	290	353	385
80°	117	160	228	272	289
82.5°	78	110	157	169	186
85°	42	67	81	91	97
87.5°	18	26	33	38	41
90°	0	0	0	0	0

(END OF REPORT)