

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: ITL67594

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: ITL67594
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WD-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 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 32-WATT T-8 FO32/835 LINEAR FLUORESCENTS.
Ballast/Driver: GE GE-232-MV-N

Summary

Lumens per Lamp: 2950 (2 lamps)
Luminaire Lumens: 4578.9 lumens
Efficiency: 77.6%
Efficacy: 83.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.39 / 1.44
Luminous Opening: Rectangular (W 1.8' x L: 3.91' x H: 0')
CIE Type: Direct

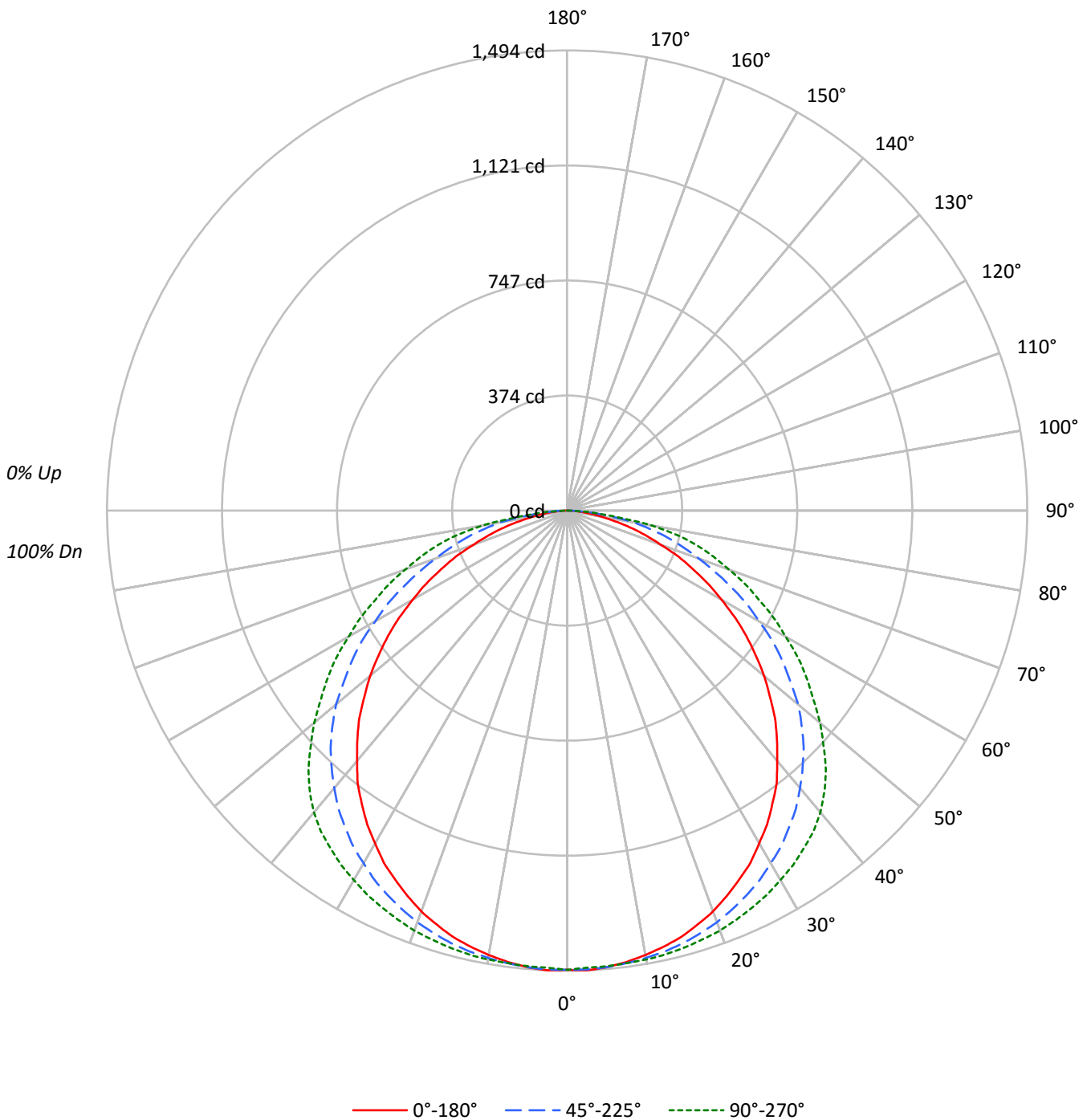
Input Watts (W): 54.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	92	92	92	92	90	90	90	90	86	86	86	83	83	83	79	79	79	78
1	84	80	77	74	82	79	75	73	75	73	70	72	70	68	69	68	66	64
2	76	70	64	60	74	68	63	59	65	61	58	63	59	56	61	58	55	53
3	69	61	55	49	67	60	54	49	57	52	48	55	51	47	53	50	46	45
4	63	54	47	42	62	53	46	41	51	45	41	49	44	40	47	43	40	38
5	58	48	41	36	57	47	41	36	46	40	35	44	39	35	43	38	34	33
6	54	43	36	31	52	42	36	31	41	35	31	40	34	30	38	34	30	28
7	50	39	32	27	48	38	32	27	37	31	27	36	31	27	35	30	27	25
8	46	36	29	24	45	35	29	24	34	28	24	33	28	24	32	27	24	22
9	43	33	26	22	42	32	26	22	31	26	22	30	25	22	30	25	21	20
10	40	30	24	20	39	30	24	20	29	23	20	28	23	19	27	23	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2286	2286	2286
5°	2291	2291	2286
10°	2281	2297	2305
15°	2275	2308	2332
20°	2260	2321	2368
25°	2237	2332	2406
30°	2208	2341	2453
35°	2175	2351	2507
40°	2124	2354	2560
45°	2071	2355	2576
50°	1992	2336	2558
55°	1898	2283	2540
60°	1773	2208	2512
65°	1637	2130	2497
70°	1444	2036	2506
75°	1256	1997	2589
80°	980	1925	2464
85°	686	1390	1548



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	141.5	3.1	2.4
10°-20°	410.5	9.0	7.0
20°-30°	634.8	13.9	10.8
30°-40°	785.2	17.1	13.3
40°-50°	831.8	18.2	14.1
50°-60°	753.4	16.5	12.8
60°-70°	577.5	12.6	9.8
70°-80°	351.0	7.7	5.9
80°-90°	93.0	2.0	1.6
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°	1186.8	25.9	20.1
0°-40°	1972.1	43.1	33.4
0°-60°	3557.3	77.7	60.3
0°-90°	4578.9	100.0	77.6
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°	4578.9	100.0	77.6

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1491	1491	1491	1491	1491	
5°	1488	1489	1488	1485	1485	141
15°	1433	1441	1454	1466	1469	404
25°	1322	1343	1378	1411	1422	609
35°	1162	1196	1256	1318	1339	727
45°	955	1000	1086	1166	1188	734
55°	710	761	854	926	950	633
65°	451	511	587	668	688	448
75°	212	265	337	407	437	225
85°	39	67	79	87	88	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1491	1491	1491	1491	1491
2.5°	1494	1493	1491	1487	1485
5°	1488	1489	1488	1485	1485
7.5°	1478	1481	1482	1483	1482
10°	1465	1471	1475	1479	1480
12.5°	1450	1456	1466	1474	1476
15°	1433	1441	1454	1466	1469
17.5°	1409	1422	1439	1457	1460
20°	1385	1399	1422	1443	1451
22.5°	1354	1372	1401	1429	1437
25°	1322	1343	1378	1411	1422
27.5°	1289	1313	1353	1392	1406
30°	1247	1275	1322	1370	1385
32.5°	1208	1236	1293	1344	1365
35°	1162	1196	1256	1318	1339
37.5°	1117	1149	1220	1287	1313
40°	1061	1104	1176	1255	1279
42.5°	1008	1050	1132	1213	1237
45°	955	1000	1086	1166	1188
47.5°	892	945	1033	1115	1129
50°	835	883	979	1052	1072
52.5°	771	826	914	994	1008
55°	710	761	854	926	950
57.5°	646	699	792	865	889
60°	578	634	720	794	819
62.5°	518	571	658	732	758
65°	451	511	587	668	688
67.5°	391	444	520	600	627
70°	322	383	454	533	559
72.5°	267	320	394	468	498
75°	212	265	337	407	437
77.5°	157	214	274	349	365
80°	111	159	218	271	279
82.5°	71	114	140	173	161
85°	39	67	79	87	88
87.5°	14	25	28	32	30
90°	0	0	0	0	0

(END OF REPORT)