

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: ITL67600

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: ITL67600
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WN-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, 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

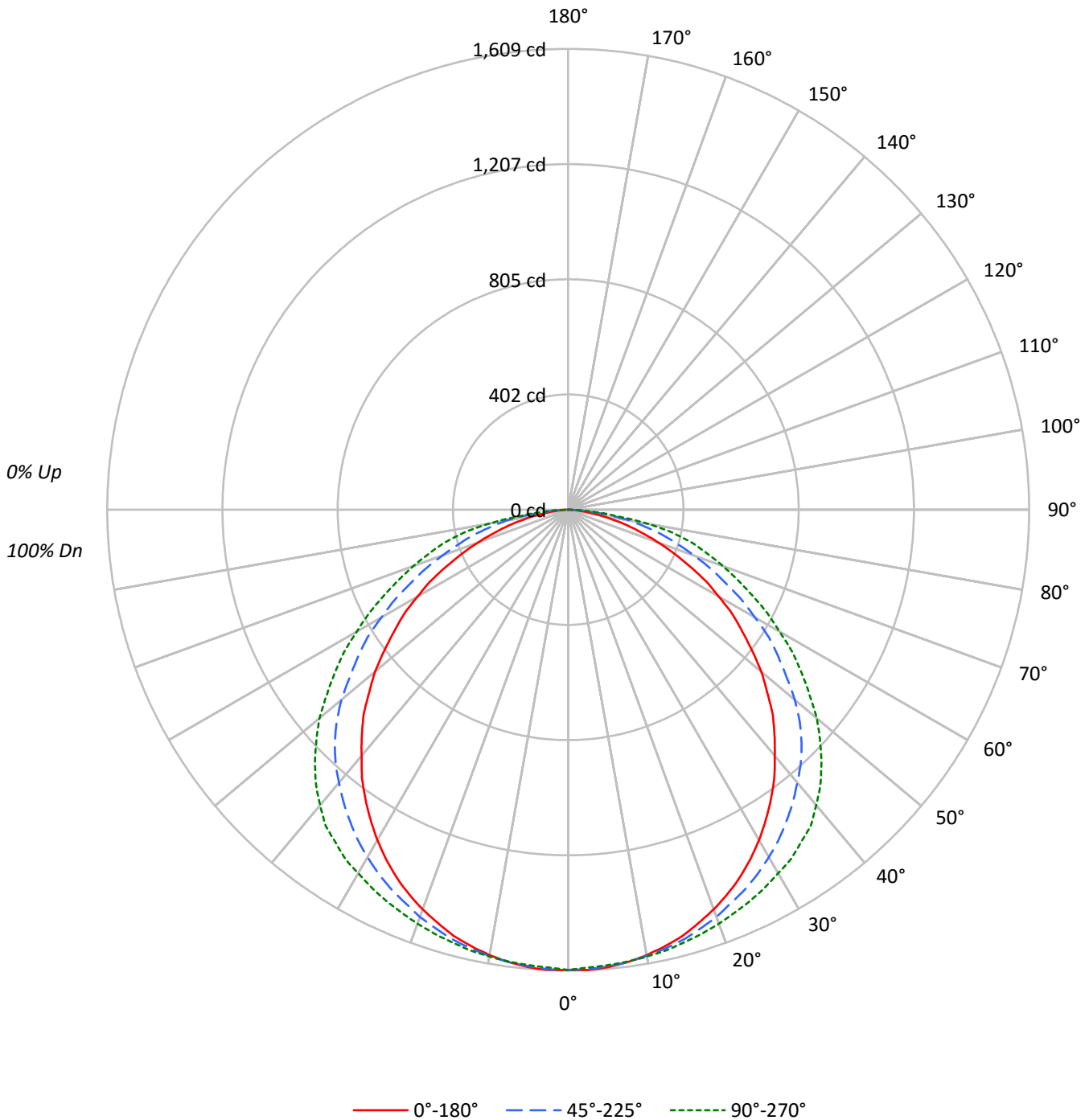
Lumens per Lamp: 2600 (2 lamps)
Luminaire Lumens: 4814.7 lumens
Efficiency: 92.6%
Efficacy: 76.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.36 / 1.43
Luminous Opening: Rectangular (W 1.8' x L: 3.91' x H: 0')
CIE Type: Direct

Input Watts (W): 63.2
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	110	110	110	110	108	108	108	108	103	103	103	98	98	98	94	94	94	93
1	100	96	92	88	98	94	90	87	90	87	84	86	84	82	83	81	79	77
2	91	83	77	72	89	82	76	71	78	73	69	75	71	67	72	69	66	64
3	83	73	65	59	81	72	64	59	69	63	58	66	61	57	64	59	56	54
4	76	65	56	50	74	63	56	50	61	54	49	59	53	48	57	52	48	46
5	70	58	49	43	68	57	49	43	55	48	42	53	47	42	51	46	41	39
6	64	52	43	37	63	51	43	37	49	42	37	48	41	36	46	41	36	34
7	60	47	39	33	58	46	38	33	45	38	33	43	37	32	42	36	32	30
8	55	43	35	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27
9	52	39	31	26	50	39	31	26	38	31	26	37	30	26	36	30	26	24
10	48	36	29	24	47	36	29	24	35	28	24	34	28	23	33	27	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2464	2464	2464
5°	2468	2463	2457
10°	2459	2463	2467
15°	2447	2467	2483
20°	2423	2469	2510
25°	2398	2474	2548
30°	2359	2481	2596
35°	2310	2486	2653
40°	2246	2490	2697
45°	2188	2498	2711
50°	2099	2464	2703
55°	1984	2393	2660
60°	1862	2309	2613
65°	1698	2199	2573
70°	1502	2094	2574
75°	1280	2020	2660
80°	998	1934	2499
85°	669	1390	1654



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	152.2	3.2	2.9
10°-20°	438.6	9.1	8.4
20°-30°	674.2	14.0	13.0
30°-40°	831.2	17.3	16.0
40°-50°	877.7	18.2	16.9
50°-60°	790.6	16.4	15.2
60°-70°	598.2	12.4	11.5
70°-80°	356.9	7.4	6.9
80°-90°	95.1	2.0	1.8
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°	1265.0	26.3	24.3
0°-40°	2096.2	43.5	40.3
0°-60°	3764.5	78.2	72.4
0°-90°	4814.7	100.0	92.6
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°	4814.7	100.0	92.6

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1607	1607	1607	1607	1607	
5°	1603	1604	1600	1598	1596	152
15°	1541	1544	1554	1562	1564	434
25°	1417	1429	1462	1494	1506	652
35°	1234	1265	1328	1398	1417	771
45°	1009	1049	1152	1229	1250	775
55°	742	797	895	972	995	665
65°	468	531	606	688	709	466
75°	216	265	341	415	449	230
85°	38	64	79	93	94	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1607	1607	1607	1607	1607
2.5°	1609	1609	1606	1601	1600
5°	1603	1604	1600	1598	1596
7.5°	1593	1593	1593	1592	1591
10°	1579	1581	1582	1584	1584
12.5°	1561	1563	1569	1575	1576
15°	1541	1544	1554	1562	1564
17.5°	1513	1522	1534	1548	1552
20°	1485	1494	1513	1531	1538
22.5°	1453	1464	1486	1514	1522
25°	1417	1429	1462	1494	1506
27.5°	1376	1395	1433	1474	1487
30°	1332	1353	1401	1449	1466
32.5°	1284	1309	1367	1424	1447
35°	1234	1265	1328	1398	1417
37.5°	1182	1213	1288	1364	1391
40°	1122	1163	1244	1329	1347
42.5°	1066	1103	1202	1279	1303
45°	1009	1049	1152	1229	1250
47.5°	941	993	1096	1174	1192
50°	880	928	1033	1109	1133
52.5°	809	866	961	1046	1062
55°	742	797	895	972	995
57.5°	680	734	831	906	929
60°	607	664	753	828	852
62.5°	543	599	683	760	784
65°	468	531	606	688	709
67.5°	401	458	539	616	639
70°	335	392	467	549	574
72.5°	272	324	402	479	508
75°	216	265	341	415	449
77.5°	160	211	275	355	375
80°	113	155	219	276	283
82.5°	69	111	141	182	169
85°	38	64	79	93	94
87.5°	13	25	32	37	38
90°	0	0	0	0	0

(END OF REPORT)