

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: ITL67058

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: ITL67058
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WL-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 FROSTED LINEAR PRISMATIC PLASTIC DIFFUSER BELOW LAMPS, BOTTOM DIFFUSER PRISMS UP AND PARALLEL WITH LAMPS, SIDE PRISMS OUT AND PARALLEL WITH LAMPS, DIFFUSERS FROSTED BOTH SIDES.
Light Source: TWO 28-WATT T-5 SYLVANIA FP28/835 LINEAR FLUORESCENTS, RATED 2600 LUMENS.
Ballast/Driver: GE GE228MVPSH-A

Summary

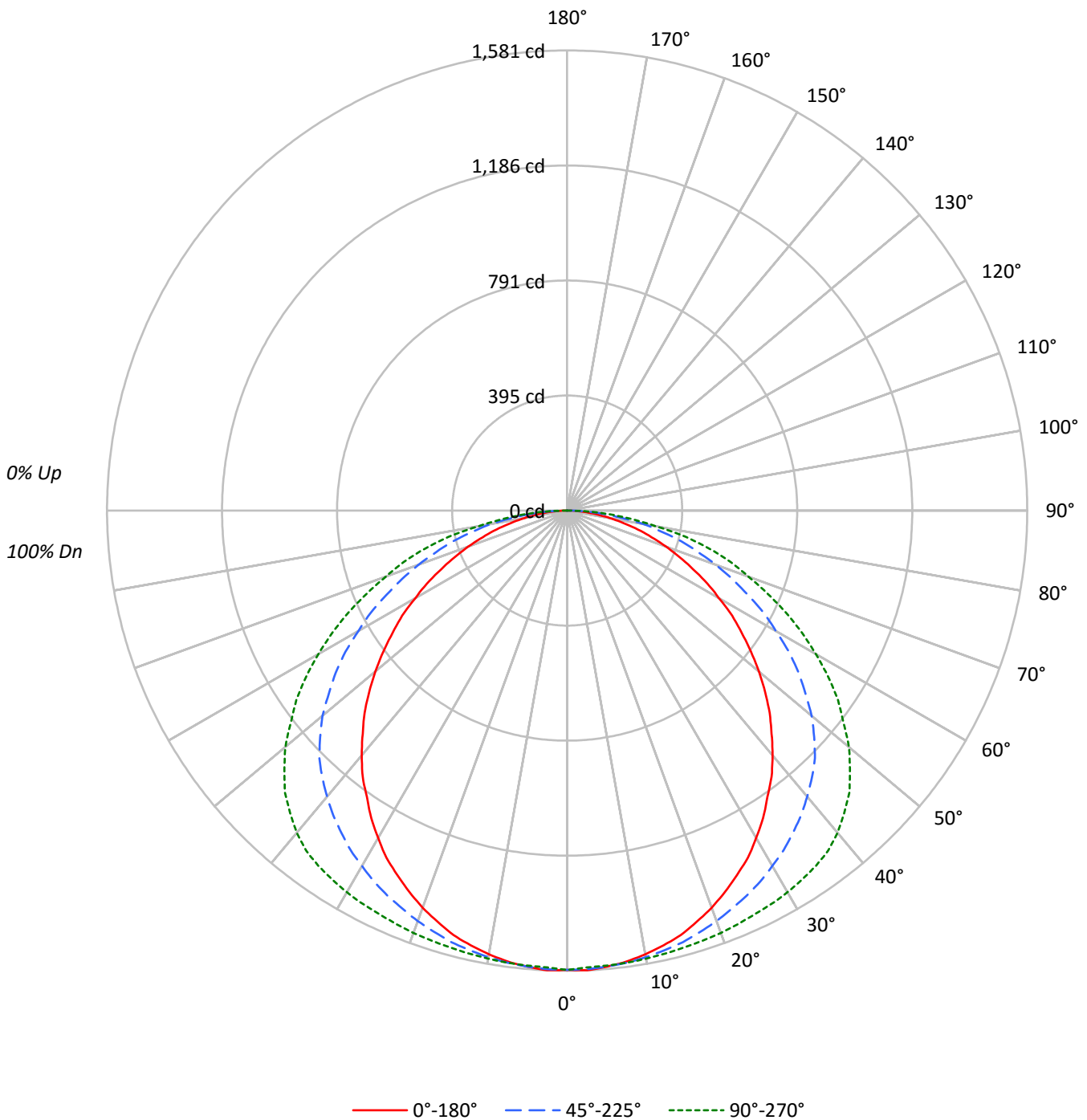
Lumens per Lamp: 3068 (2 lamps)
Luminaire Lumens: 5082.1 lumens
Efficiency: 82.8%
Efficacy: 69.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.45 / 1.48
Luminous Opening: Rectangular (W 1.8' x L: 3.91' x H: 0')
CIE Type: Direct

Input Watts (W): 73.1
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									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	99	99	99	99	96	96	96	96	92	92	92	88	88	88	85	85	85	83						83													
1	90	85	82	78	87	83	80	77	80	77	74	77	74	72	74	72	70	68						68													
2	81	74	68	63	79	72	67	62	69	65	61	67	63	59	64	61	58	56						56													
3	74	64	57	52	71	63	57	51	61	55	50	58	53	49	56	52	49	47						47													
4	67	57	49	43	65	56	49	43	54	47	43	52	46	42	50	45	41	40						40													
5	62	51	43	37	60	50	42	37	48	41	37	46	41	36	45	40	36	34						34													
6	57	45	38	32	55	45	37	32	43	37	32	42	36	31	40	35	31	29						29													
7	53	41	34	28	51	40	33	28	39	33	28	38	32	28	37	31	28	26						26													
8	49	37	30	25	48	37	30	25	36	29	25	35	29	25	34	28	25	23						23													
9	46	34	27	23	44	34	27	22	33	27	22	32	26	22	31	26	22	21						21													
10	43	31	25	20	42	31	25	20	30	24	20	29	24	20	29	24	20	19						19													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2417	2417	2417
5°	2418	2418	2412
10°	2407	2423	2431
15°	2394	2434	2464
20°	2366	2446	2516
25°	2334	2467	2584
30°	2297	2493	2677
35°	2244	2528	2786
40°	2195	2565	2889
45°	2131	2608	2969
50°	2049	2614	3012
55°	1954	2590	3033
60°	1847	2536	3023
65°	1732	2479	3004
70°	1612	2427	2969
75°	1491	2396	3000
80°	1332	2364	2725
85°	1160	2073	2548



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	149.6	2.9	2.4
10°-20°	433.2	8.5	7.1
20°-30°	673.3	13.2	11.0
30°-40°	845.6	16.6	13.8
40°-50°	916.5	18.0	14.9
50°-60°	850.9	16.7	13.9
60°-70°	667.9	13.1	10.9
70°-80°	415.7	8.2	6.8
80°-90°	129.3	2.5	2.1
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°	1256.1	24.7	20.5
0°-40°	2101.7	41.4	34.3
0°-60°	3869.2	76.1	63.1
0°-90°	5082.1	100.0	82.8
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°	5082.1	100.0	82.8

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1578	1578	1578	1578	1578	
5°	1573	1575	1573	1570	1569	149
15°	1510	1518	1535	1548	1554	425
25°	1381	1407	1460	1511	1529	637
35°	1200	1255	1352	1453	1490	752
45°	984	1053	1204	1328	1371	758
55°	732	813	970	1095	1136	655
65°	478	561	684	804	829	476
75°	252	311	405	486	507	266
85°	66	94	118	142	145	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1578	1578	1578	1578	1578
2.5°	1581	1580	1577	1572	1571
5°	1573	1575	1573	1570	1569
7.5°	1563	1565	1567	1566	1567
10°	1548	1553	1558	1562	1563
12.5°	1530	1536	1547	1555	1559
15°	1510	1518	1535	1548	1554
17.5°	1481	1496	1518	1541	1549
20°	1452	1469	1501	1532	1544
22.5°	1418	1441	1480	1522	1537
25°	1381	1407	1460	1511	1529
27.5°	1345	1375	1437	1499	1523
30°	1299	1334	1410	1485	1514
32.5°	1253	1294	1384	1470	1503
35°	1200	1255	1352	1453	1490
37.5°	1154	1203	1320	1432	1473
40°	1098	1159	1283	1407	1445
42.5°	1040	1106	1245	1370	1409
45°	984	1053	1204	1328	1371
47.5°	923	998	1151	1283	1318
50°	860	937	1097	1221	1264
52.5°	796	878	1032	1162	1197
55°	732	813	970	1095	1136
57.5°	672	753	904	1024	1064
60°	603	684	828	947	987
62.5°	544	625	762	876	910
65°	478	561	684	804	829
67.5°	419	493	614	720	745
70°	360	432	542	647	663
72.5°	304	368	470	563	590
75°	252	311	405	486	507
77.5°	197	256	330	409	417
80°	151	199	268	313	309
82.5°	104	146	184	220	220
85°	66	94	118	142	145
87.5°	28	46	62	67	72
90°	0	0	0	0	0

(END OF REPORT)