

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: ITL67590

Luminaire Tested: **Z2-WL-2N5-1C-UNV-24-T1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: ITL67590
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z2-WL-2N5-1C-UNV-24-T1
Description: FORMED WHITE PAINTED METAL REFLECTOR, FORMED WHITE PAINTED METAL BALLAST COVER, FABRICATED WHITE PAINTED METAL END PLATES, EXTRUDED FROSTED LINEAR PRISMATIC PLASTIC DIFFUSER WITH MICRO-LINEAR SIDES, DIFFUSER BOTTOM PRISMS UP AND PARALLEL WITH LAMPS, SIDE PRISMS OUT AND PARALLEL WITH LAMPS, DIFFUSER FROSTED BOTH SIDES.
Light Source: TWO 28-WATT T-5 SYLVANIA FP28/835 LINEAR FLUORESCENTS.
Ballast/Driver: GE GE228MVPS-A

Summary

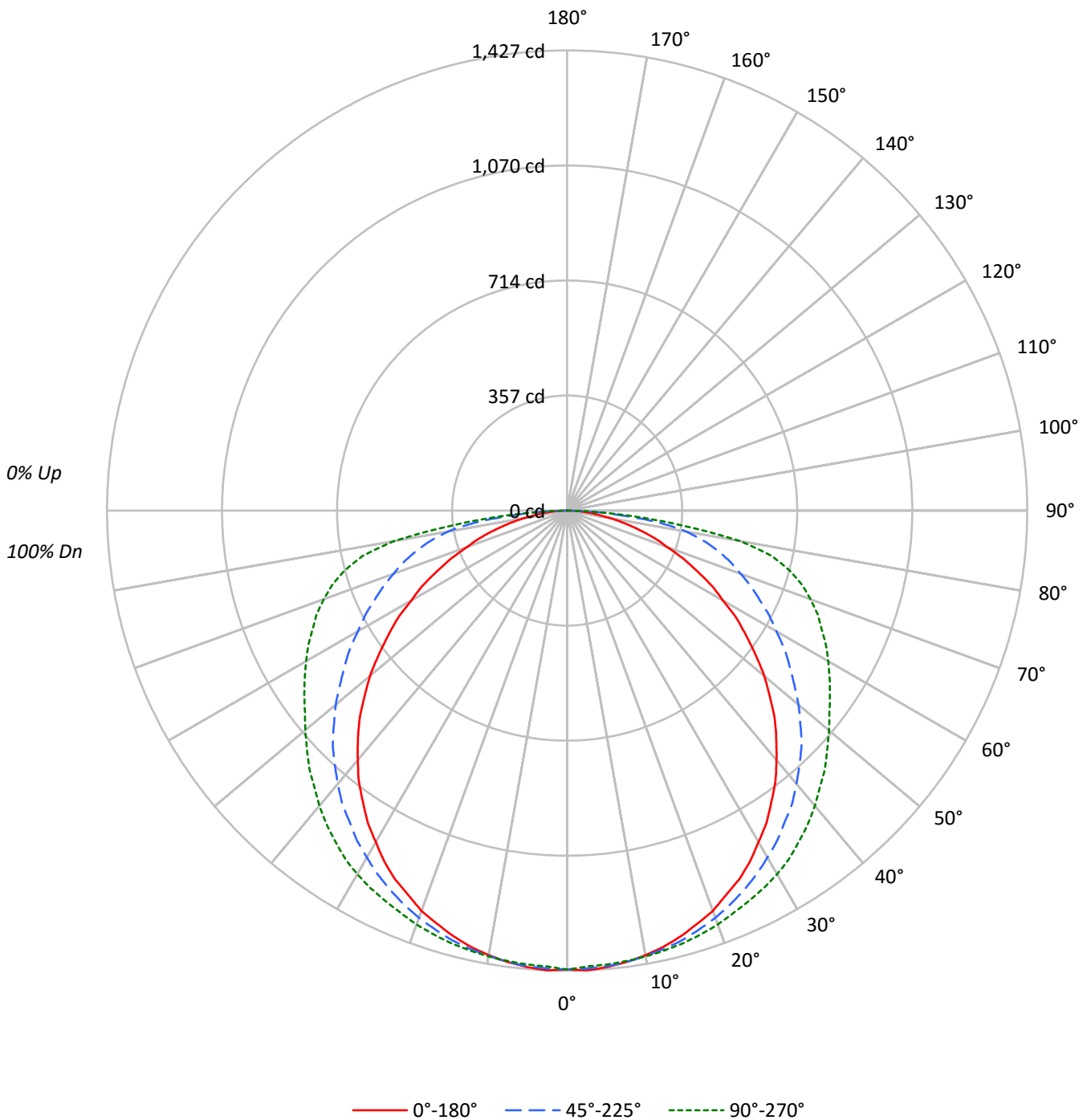
Lumens per Lamp: 2600 (2 lamps)
Luminaire Lumens: 4748.9 lumens
Efficiency: 91.3%
Efficacy: 78.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.36 / 1.43
Luminous Opening: Rectangular (W 1.93' x L: 3.91' x H: 0')
CIE Type: Direct

Input Watts (W): 60.6
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	109	109	109	109	106	106	106	106	101	101	101		97	97	97		93	93	93	91
1	98	93	88	84	95	91	87	83	87	83	80		83	80	78		80	77	75	73
2	88	80	73	67	86	78	72	66	75	69	65		72	67	63		69	65	62	59
3	80	69	61	55	77	68	60	54	65	59	53		62	57	52		60	55	51	49
4	73	61	52	46	71	60	52	45	57	50	45		55	49	44		53	48	43	41
5	67	54	46	39	65	53	45	39	51	44	38		49	43	38		48	42	37	35
6	62	49	40	34	60	48	40	34	46	39	33		44	38	33		43	37	33	31
7	57	44	36	30	55	43	35	30	42	35	29		40	34	29		39	33	29	27
8	53	40	32	26	51	39	32	26	38	31	26		37	31	26		36	30	26	24
9	49	37	29	24	48	36	29	24	35	28	23		34	28	23		33	27	23	21
10	46	34	26	21	45	33	26	21	32	26	21		32	25	21		31	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2027	2027	2027
5°	2031	2027	2020
10°	2025	2027	2030
15°	2014	2033	2048
20°	2002	2037	2070
25°	1983	2040	2098
30°	1952	2042	2141
35°	1919	2046	2178
40°	1878	2056	2222
45°	1833	2070	2278
50°	1768	2076	2349
55°	1683	2091	2471
60°	1589	2133	2663
65°	1496	2224	2935
70°	1370	2386	3344
75°	1271	2669	3923
80°	1132	3084	4478
85°	964	2778	3448



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	134.8	2.8	2.6
10°-20°	389.2	8.2	7.5
20°-30°	598.8	12.6	11.5
30°-40°	738.9	15.6	14.2
40°-50°	788.8	16.6	15.2
50°-60°	753.2	15.9	14.5
60°-70°	656.7	13.8	12.6
70°-80°	504.9	10.6	9.7
80°-90°	183.6	3.9	3.5
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°	1122.8	23.6	21.6
0°-40°	1861.7	39.2	35.8
0°-60°	3403.6	71.7	65.5
0°-90°	4748.9	100.0	91.3
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°	4748.9	100.0	91.3

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1423	1423	1423	1423	1423	
5°	1421	1421	1418	1414	1413	135
15°	1366	1371	1379	1384	1389	385
25°	1262	1273	1298	1323	1335	581
35°	1104	1130	1177	1236	1253	691
45°	910	943	1028	1101	1131	700
55°	678	731	842	953	995	608
65°	444	518	660	815	871	441
75°	231	318	485	651	713	246
85°	59	130	170	202	211	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1423	1423	1423	1423	1423
2.5°	1427	1425	1421	1416	1415
5°	1421	1421	1418	1414	1413
7.5°	1412	1412	1412	1408	1409
10°	1400	1401	1402	1402	1404
12.5°	1385	1387	1392	1395	1397
15°	1366	1371	1379	1384	1389
17.5°	1343	1353	1362	1373	1378
20°	1321	1328	1344	1358	1366
22.5°	1289	1303	1322	1342	1350
25°	1262	1273	1298	1323	1335
27.5°	1227	1241	1272	1305	1320
30°	1187	1206	1242	1284	1302
32.5°	1150	1170	1213	1262	1281
35°	1104	1130	1177	1236	1253
37.5°	1061	1086	1146	1205	1226
40°	1010	1041	1106	1174	1195
42.5°	960	989	1067	1136	1161
45°	910	943	1028	1101	1131
47.5°	852	894	981	1065	1094
50°	798	837	937	1025	1060
52.5°	738	787	888	990	1025
55°	678	731	842	953	995
57.5°	624	679	799	916	965
60°	558	622	749	879	935
62.5°	507	571	707	848	905
65°	444	518	660	815	871
67.5°	390	464	618	777	841
70°	329	416	573	742	803
72.5°	285	366	531	699	763
75°	231	318	485	651	713
77.5°	182	276	434	597	649
80°	138	228	376	515	546
82.5°	93	185	291	374	366
85°	59	130	170	202	211
87.5°	29	60	71	72	72
90°	0	0	0	0	0

(END OF REPORT)