

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: ITL67623

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: ITL67623
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z2-WN-2N5-1C-UNV-24-T1
Description: FORMED WHITE PAINTED METAL REFLECTOR, FORMED WHITE PAINTED METAL BALLAST COVER, FABRICATED WHITE PAINTED METAL END PLATES, EXTRUDED CLEAR PLASTIC LENS WITH FROSTED MICRO-LINEAR PRISMATIC SIDES AND FROSTED PLASTIC OVERLAY, LENS PRISMS OUT AND PARALLEL WITH LAMPS, OVERLAY FROSTED SIDE DOWN.
Light Source: TWO 28-WATT T-5 SYLVANIA FP28/835 LINEAR FLUORESCENTS.
Ballast/Driver: GE GE228MVPS-A

Summary

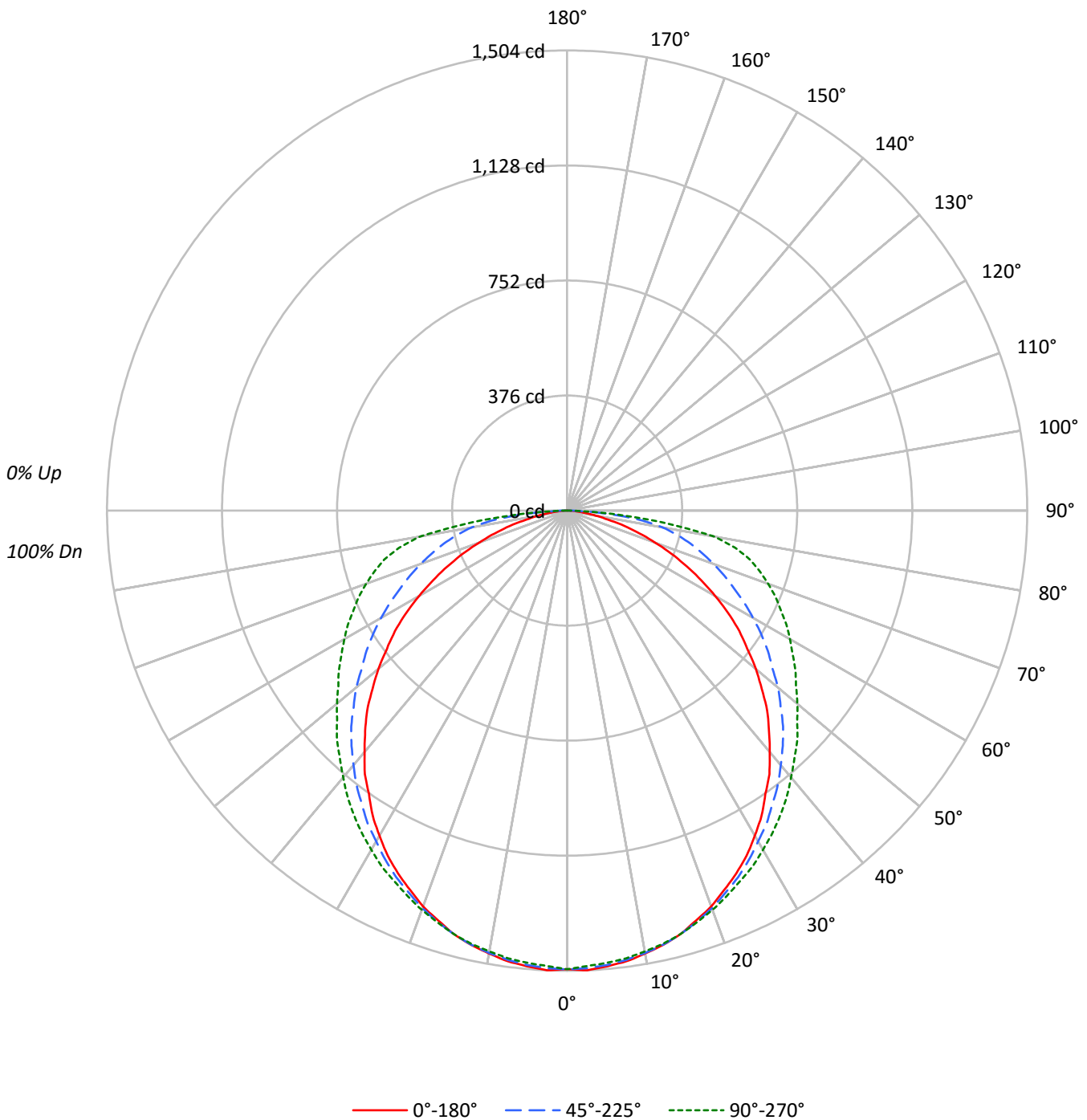
Lumens per Lamp: 2600 (2 lamps)
Luminaire Lumens: 4560.4 lumens
Efficiency: 87.7%
Efficacy: 74.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.93' x L: 3.91' x H: 0')
CIE Type: Direct

Input Watts (W): 61.3
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				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	104	104	104	104	102	102	102	102	97	97	97	93	93	93	89	89	89	88
1	94	90	86	82	92	88	84	80	84	81	78	80	78	76	77	75	73	71
2	85	77	71	66	83	76	70	65	73	68	63	70	65	62	67	63	60	58
3	77	68	60	54	75	66	59	53	64	57	52	61	56	52	59	54	51	49
4	71	60	52	45	69	58	51	45	56	50	44	54	48	44	52	47	43	41
5	65	53	45	39	63	52	44	39	50	43	38	49	43	38	47	42	37	35
6	60	48	40	34	58	47	39	34	45	38	33	44	38	33	42	37	33	31
7	56	43	35	30	54	43	35	30	41	34	29	40	34	29	39	33	29	27
8	52	39	32	27	50	39	32	26	38	31	26	37	31	26	36	30	26	24
9	48	36	29	24	47	36	29	24	35	28	24	34	28	24	33	27	23	22
10	45	33	26	22	44	33	26	22	32	26	21	31	25	21	30	25	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2135	2135	2135
5°	2137	2132	2122
10°	2126	2123	2116
15°	2113	2113	2113
20°	2087	2096	2105
25°	2055	2077	2101
30°	2018	2052	2105
35°	1965	2034	2112
40°	1915	2019	2118
45°	1863	2010	2143
50°	1784	1994	2176
55°	1706	1989	2262
60°	1592	2000	2395
65°	1452	2029	2595
70°	1274	2115	2911
75°	1067	2295	3406
80°	779	2608	4002
85°	474	2402	3088



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	141.6	3.1	2.7
10°-20°	404.1	8.9	7.8
20°-30°	609.5	13.4	11.7
30°-40°	734.5	16.1	14.1
40°-50°	767.0	16.8	14.7
50°-60°	715.1	15.7	13.8
60°-70°	599.5	13.1	11.5
70°-80°	436.0	9.6	8.4
80°-90°	153.2	3.4	2.9
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°	1155.2	25.3	22.2
0°-40°	1889.7	41.4	36.3
0°-60°	3371.7	73.9	64.8
0°-90°	4560.4	100.0	87.7
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°	4560.4	100.0	87.7

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1499	1499	1499	1499	1499	
5°	1495	1495	1491	1486	1484	142
15°	1433	1433	1433	1432	1433	404
25°	1308	1312	1322	1332	1337	602
35°	1130	1148	1170	1207	1215	709
45°	925	942	998	1047	1064	711
55°	687	720	801	878	911	612
65°	431	491	602	724	770	427
75°	194	272	417	564	619	205
85°	29	96	147	181	189	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1499	1499	1499	1499	1499
2.5°	1504	1501	1497	1492	1490
5°	1495	1495	1491	1486	1484
7.5°	1486	1484	1481	1477	1476
10°	1470	1471	1468	1466	1463
12.5°	1454	1452	1453	1450	1450
15°	1433	1433	1433	1432	1433
17.5°	1404	1408	1409	1412	1411
20°	1377	1380	1383	1387	1389
22.5°	1342	1349	1352	1361	1363
25°	1308	1312	1322	1332	1337
27.5°	1271	1276	1287	1304	1312
30°	1227	1233	1248	1271	1280
32.5°	1183	1191	1213	1241	1249
35°	1130	1148	1170	1207	1215
37.5°	1086	1095	1131	1167	1179
40°	1030	1048	1086	1127	1139
42.5°	977	995	1043	1085	1099
45°	925	942	998	1047	1064
47.5°	863	888	946	1004	1020
50°	805	831	900	960	982
52.5°	743	777	845	921	943
55°	687	720	801	878	911
57.5°	625	663	752	839	874
60°	559	605	702	799	841
62.5°	495	548	652	762	808
65°	431	491	602	724	770
67.5°	369	434	556	686	737
70°	306	378	508	650	699
72.5°	248	322	463	606	660
75°	194	272	417	564	619
77.5°	136	227	369	516	563
80°	95	181	318	451	488
82.5°	59	144	249	333	336
85°	29	96	147	181	189
87.5°	11	37	50	56	54
90°	0	0	0	0	0

(END OF REPORT)