

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: ITL67620

Luminaire Tested: **R2-WN-2N5-1C-UNV-24-T1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: ITL67620
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R2-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 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

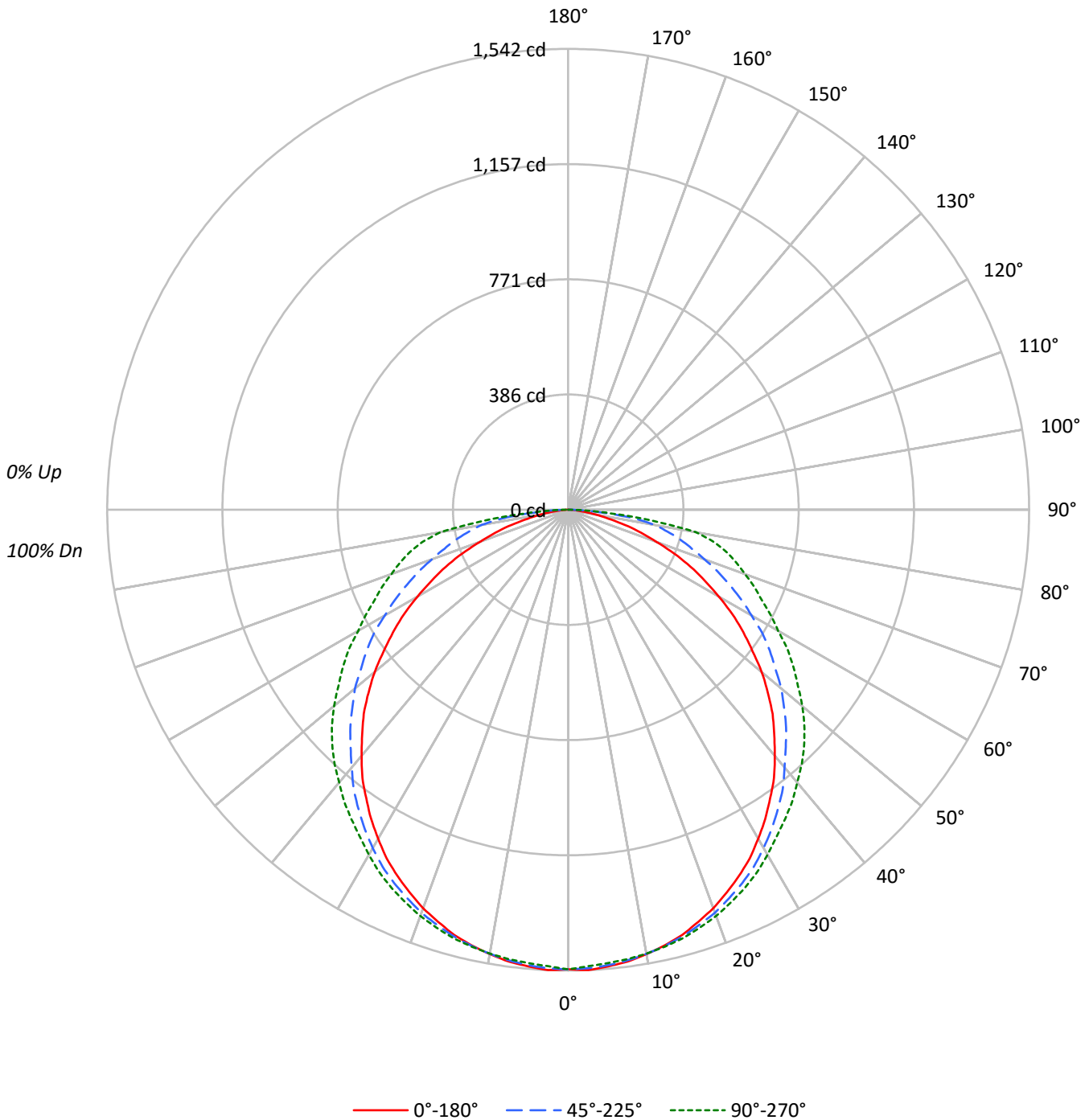
Lumens per Lamp: 2600 (2 lamps)
Luminaire Lumens: 4615.7 lumens
Efficiency: 88.8%
Efficacy: 74.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 1.93' x L: 3.91' x H: 0')
CIE Type: Direct

Input Watts (W): 61.6
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	106	106	106	106	103	103	103	103	99	99	99	94	94	94	91	91	91	89
1	96	91	87	84	93	89	86	82	85	82	80	82	79	77	79	77	75	73
2	87	79	73	67	84	77	71	66	74	69	65	71	67	63	68	65	62	60
3	79	69	62	56	77	68	61	55	65	59	54	63	57	53	60	56	52	50
4	72	61	53	47	70	60	52	46	58	51	46	56	50	45	54	49	45	43
5	66	54	46	40	64	53	46	40	52	45	39	50	44	39	48	43	39	37
6	61	49	41	35	59	48	40	35	46	40	34	45	39	34	44	38	34	32
7	57	44	36	31	55	44	36	31	42	35	30	41	35	30	40	34	30	28
8	53	40	33	27	51	40	32	27	39	32	27	38	31	27	36	31	27	25
9	49	37	30	25	48	37	29	25	36	29	24	35	29	24	34	28	24	23
10	46	34	27	22	45	34	27	22	33	27	22	32	26	22	31	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2190	2190	2190
5°	2193	2187	2177
10°	2184	2182	2181
15°	2172	2179	2188
20°	2151	2175	2193
25°	2125	2165	2195
30°	2090	2149	2192
35°	2048	2126	2198
40°	1999	2093	2216
45°	1948	2077	2248
50°	1872	2063	2264
55°	1775	2043	2284
60°	1658	2017	2310
65°	1523	2005	2406
70°	1307	2020	2619
75°	1078	2140	3021
80°	779	2411	3551
85°	458	1912	2386



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	145.3	3.1	2.8
10°-20°	417.1	9.0	8.0
20°-30°	634.2	13.7	12.2
30°-40°	765.8	16.6	14.7
40°-50°	799.9	17.3	15.4
50°-60°	733.2	15.9	14.1
60°-70°	584.6	12.7	11.2
70°-80°	403.8	8.7	7.8
80°-90°	131.7	2.9	2.5
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°	1196.7	25.9	23.0
0°-40°	1962.5	42.5	37.7
0°-60°	3495.6	75.7	67.2
0°-90°	4615.7	100.0	88.8
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°	4615.7	100.0	88.8

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1538	1538	1538	1538	1538	
5°	1534	1534	1530	1525	1523	146
15°	1473	1473	1478	1482	1484	415
25°	1352	1359	1378	1393	1397	623
35°	1178	1199	1223	1254	1264	737
45°	967	985	1031	1093	1116	744
55°	715	742	823	895	920	639
65°	452	496	595	686	714	445
75°	196	266	389	504	549	209
85°	28	83	117	141	146	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1538	1538	1538	1538	1538
2.5°	1542	1541	1536	1530	1529
5°	1534	1534	1530	1525	1523
7.5°	1525	1523	1521	1517	1517
10°	1510	1510	1509	1508	1508
12.5°	1493	1492	1495	1496	1497
15°	1473	1473	1478	1482	1484
17.5°	1446	1451	1457	1466	1466
20°	1419	1425	1435	1444	1447
22.5°	1386	1394	1407	1421	1422
25°	1352	1359	1378	1393	1397
27.5°	1315	1326	1346	1361	1368
30°	1271	1283	1307	1328	1333
32.5°	1227	1244	1267	1291	1297
35°	1178	1199	1223	1254	1264
37.5°	1131	1147	1179	1214	1231
40°	1075	1097	1126	1177	1192
42.5°	1020	1040	1077	1136	1156
45°	967	985	1031	1093	1116
47.5°	906	927	979	1051	1072
50°	845	866	931	1001	1022
52.5°	777	806	873	951	969
55°	715	742	823	895	920
57.5°	652	684	770	845	870
60°	582	617	708	786	811
62.5°	516	554	654	734	763
65°	452	496	595	686	714
67.5°	384	434	541	633	673
70°	314	379	485	591	629
72.5°	255	317	434	546	590
75°	196	266	389	504	549
77.5°	138	219	340	460	500
80°	95	170	294	405	433
82.5°	54	128	222	284	285
85°	28	83	117	141	146
87.5°	8	25	41	46	47
90°	0	0	0	0	0

(END OF REPORT)