

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: 23491

Luminaire Tested: **R1-WP-2N5-UNV-24-T1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 23491
Test Lab: LIGHTING SCIENCES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R1-WP-2N5-UNV-24-T1
Description: WITH WHITE INTERIOR AND FROSTED LINEAR PRISMATIC PLASTIC LENS WITH
ROUND PERF
Light Source: TWO SYLVANIA 28 WATT T5 LAMPS

FP28/841. LUMEN RATING = 2600 LMS.

Ballast/Driver: -

Summary

Lumens per Lamp: 2600 (2 lamps)
Luminaire Lumens: 3177.1 lumens
Efficiency: 61.1%
Efficacy: 52.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.33 / 1.4
Luminous Opening: Rectangular (W 1.95' x L: 3.92' x H: 0')
CIE Type: Direct

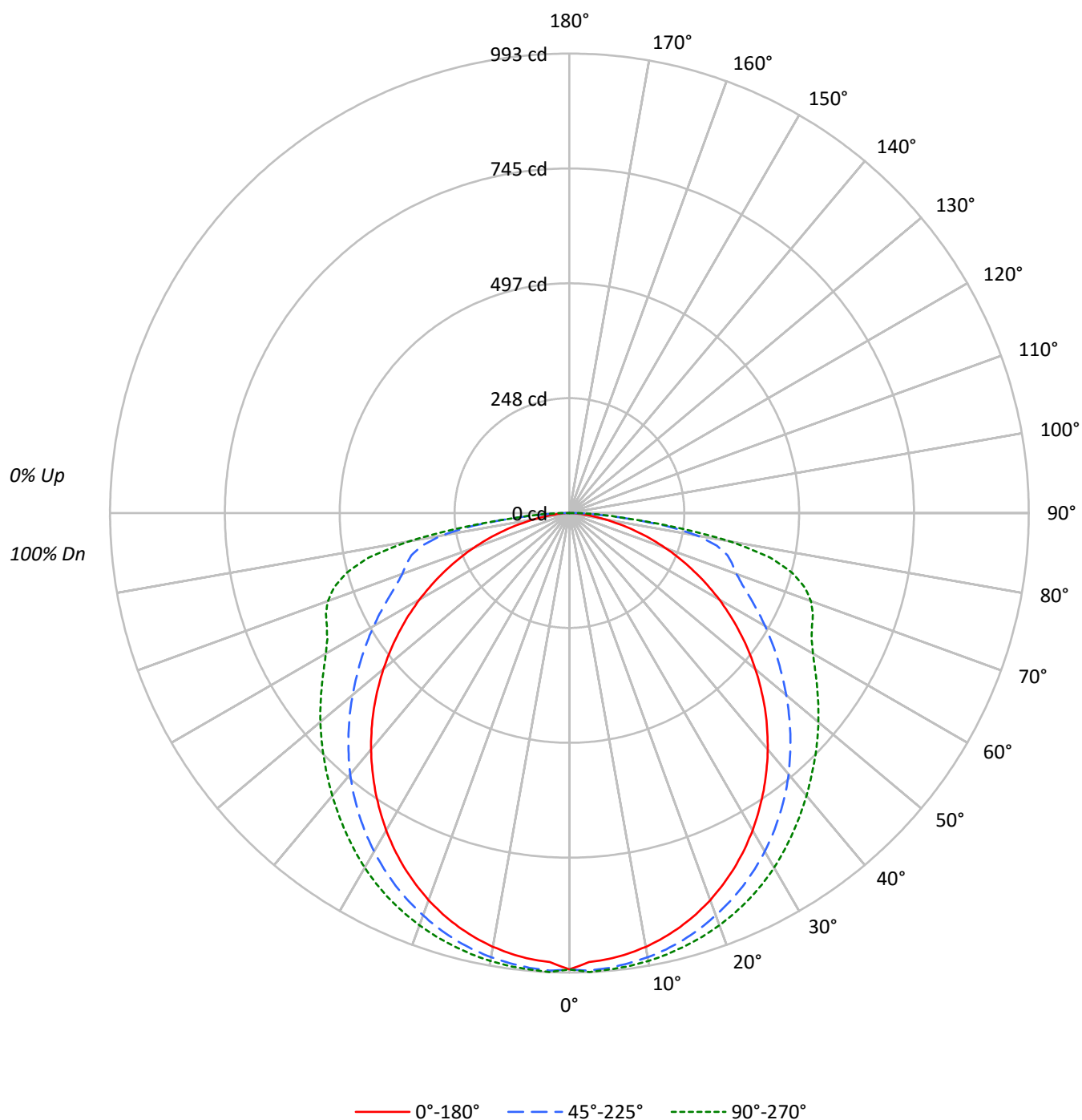
Input Watts (W): 61
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: R1-WP-2N5-UNV-24-T1

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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	73	73	73	73	71	71	71	71	68	68	68	65	65	65	62	62	62
1	65	62	59	56	64	61	58	55	58	56	54	56	54	52	53	52	50
2	59	53	49	45	57	52	48	44	50	46	43	48	45	42	46	44	41
3	53	46	41	37	52	45	40	36	44	39	36	42	38	35	40	37	34
4	49	41	35	31	47	40	35	31	38	34	30	37	33	30	36	32	29
5	45	36	31	26	43	36	30	26	34	30	26	33	29	26	32	28	25
6	41	33	27	23	40	32	27	23	31	26	23	30	26	22	29	25	22
7	38	30	24	20	37	29	24	20	28	23	20	27	23	20	26	22	20
8	36	27	22	18	35	27	21	18	26	21	18	25	21	18	24	20	17
9	33	25	20	16	32	24	19	16	24	19	16	23	19	16	22	19	16
10	31	23	18	15	30	22	18	14	22	17	14	21	17	14	21	17	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1389	1389	1389
5°	1368	1394	1400
10°	1361	1394	1406
15°	1350	1392	1412
20°	1334	1386	1420
25°	1313	1381	1430
30°	1287	1373	1439
35°	1258	1364	1449
40°	1226	1355	1466
45°	1190	1345	1494
50°	1149	1340	1539
55°	1105	1348	1605
60°	1053	1376	1711
65°	991	1433	1928
70°	908	1581	2287
75°	792	1925	2712
80°	621	2278	2865
85°	449	1793	1855



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	93.4	2.9	1.8
10°-20°	268.3	8.4	5.2
20°-30°	408.0	12.8	7.8
30°-40°	494.4	15.6	9.5
40°-50°	520.6	16.4	10.0
50°-60°	493.0	15.5	9.5
60°-70°	431.5	13.6	8.3
70°-80°	348.3	11.0	6.7
80°-90°	119.7	3.8	2.3
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°	769.7	24.2	14.8
0°-40°	1264.0	39.8	24.3
0°-60°	2277.6	71.7	43.8
0°-90°	3177.1	100.0	61.1
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°	3177.1	100.0	61.1

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	986	986	986	986	986	
5°	968	975	986	990	990	92
15°	926	936	955	965	968	261
25°	845	859	889	911	920	389
35°	732	750	794	829	843	458
45°	598	620	675	728	750	461
55°	450	478	549	624	654	402
65°	297	331	430	534	579	294
75°	146	202	354	467	498	155
85°	28	86	111	115	115	34
90°	1	4	9	12	12	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	986.1	986.1	986.1	986.1	986.1
2.5°	971.4	978.3	989.7	992.3	992.9
5°	967.5	974.7	986.5	989.9	990.1
7.5°	960.9	968.6	981.3	985.9	987.4
10°	951.8	960.2	974.8	980.8	983.0
12.5°	940.1	949.2	965.9	973.7	976.6
15°	925.9	935.5	954.6	964.6	968.4
17.5°	909.1	919.6	940.9	953.2	959.2
20°	890.1	901.5	925.2	941.2	947.9
22.5°	868.6	881.1	908.1	927.0	934.8
25°	845.0	858.8	888.7	911.3	920.3
27.5°	819.3	834.2	867.4	893.2	903.6
30°	791.8	807.9	844.5	873.5	884.8
32.5°	762.5	779.7	819.9	851.8	864.3
35°	731.9	750.1	793.6	828.9	842.7
37.5°	699.9	719.2	766.0	804.6	820.4
40°	667.0	687.0	737.3	779.3	797.3
42.5°	632.7	653.7	706.4	753.4	773.7
45°	597.5	619.8	675.3	727.5	750.3
47.5°	561.3	585.4	643.7	701.9	726.8
50°	524.7	550.0	611.8	676.4	702.6
52.5°	487.6	513.9	579.8	650.4	678.1
55°	450.1	477.5	549.1	623.8	653.6
57.5°	412.2	440.8	518.5	597.8	629.5
60°	374.0	403.9	488.6	572.8	607.6
62.5°	335.7	367.3	458.7	551.0	590.0
65°	297.3	331.4	430.1	534.4	578.6
67.5°	259.0	296.7	404.2	523.6	569.6
70°	220.6	263.2	384.1	513.4	555.6
72.5°	182.8	231.3	369.6	495.9	533.0
75°	145.6	201.7	353.8	467.2	498.5
77.5°	109.7	177.0	326.5	421.2	443.9
80°	76.6	156.7	280.9	348.2	353.3
82.5°	49.8	130.3	208.5	230.4	222.3
85°	27.8	85.6	111.0	115.1	114.8
87.5°	10.1	30.8	40.7	52.3	54.5
90°	1.1	4.0	8.6	12.0	12.4

(END OF REPORT)