

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: 23293

Luminaire Tested: **R1-WL-2N5-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 23293
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R1-WL-2N5-14
Description: WITH WHITE INTERIOR AND FROSTED LINEAR PRISMATIC PLASTIC LENS

Light Source: TWO SYLVANIA 28 WATT T5 LAMPS

FP28/841. LUMEN RATING = 2600 LMS.

Ballast/Driver: -

Summary

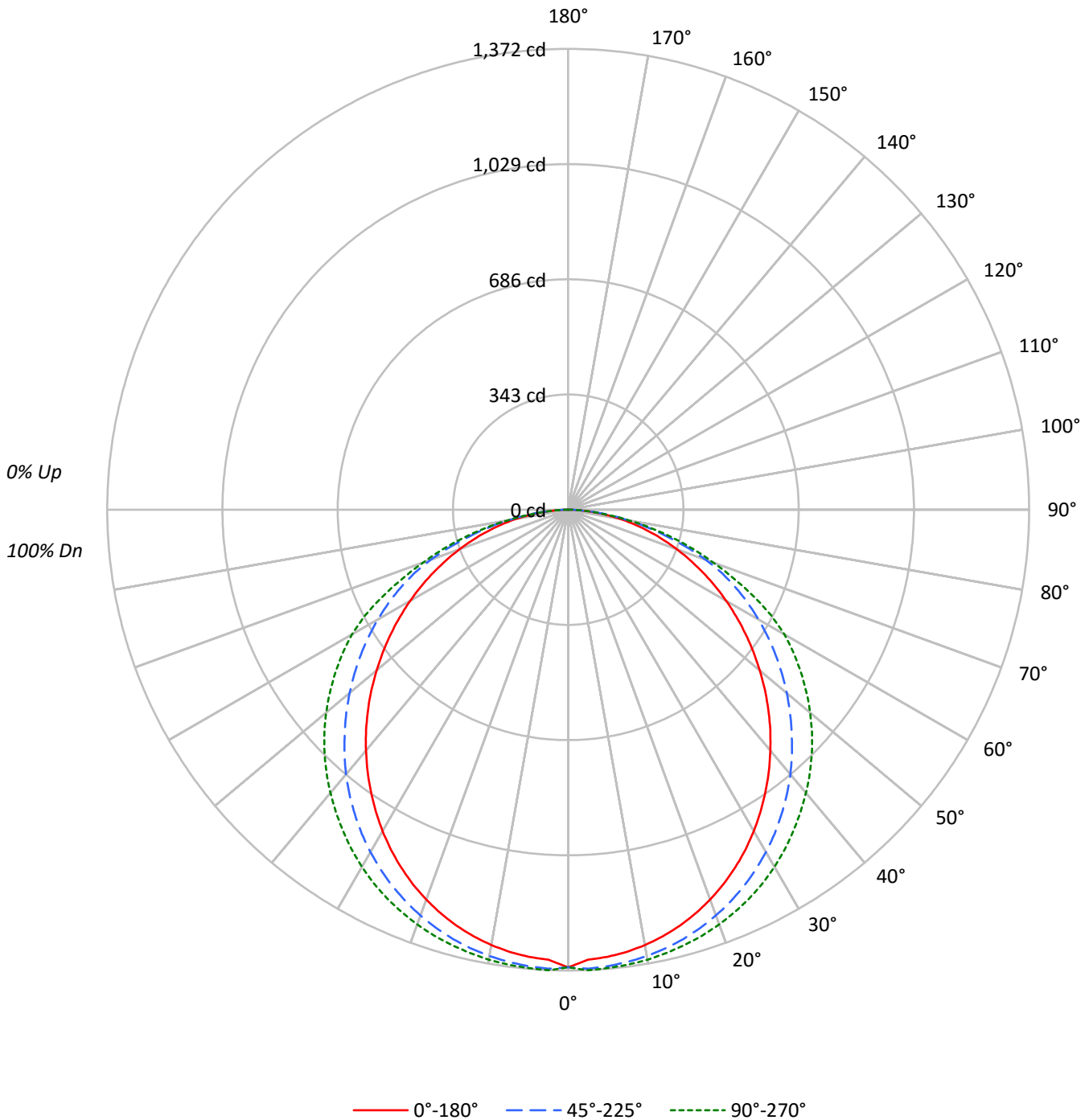
Lumens per Lamp: 2600 (2 lamps)
Luminaire Lumens: 4075.2 lumens
Efficiency: 78.4%
Efficacy: 67.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.34 / 1.4
Luminous Opening: Rectangular (W 0.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 60
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	93	93	93	93	91	91	91	91	87	87	87	83	83	83	80	80	80	78
1	85	81	78	75	83	79	76	73	76	73	71	73	71	69	70	68	67	65
2	77	70	65	60	75	69	64	60	66	62	58	64	60	57	61	58	56	54
3	70	62	55	50	68	60	54	49	58	53	48	56	51	48	54	50	47	45
4	64	54	47	42	62	53	47	42	51	46	41	50	45	41	48	44	40	38
5	59	49	41	36	57	48	41	36	46	40	35	44	39	35	43	38	35	33
6	54	44	36	31	53	43	36	31	41	35	31	40	35	31	39	34	30	29
7	50	39	33	28	49	39	32	28	38	32	27	36	31	27	35	31	27	25
8	47	36	29	25	46	35	29	24	34	29	24	33	28	24	32	28	24	23
9	44	33	26	22	43	33	26	22	32	26	22	31	26	22	30	25	22	20
10	41	30	24	20	40	30	24	20	29	24	20	28	23	20	28	23	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4066	4066	4066
5°	4004	4087	4103
10°	3989	4089	4122
15°	3962	4090	4144
20°	3923	4083	4174
25°	3872	4074	4203
30°	3808	4057	4231
35°	3731	4034	4256
40°	3648	4009	4289
45°	3557	3971	4328
50°	3456	3943	4366
55°	3351	3922	4401
60°	3241	3907	4436
65°	3124	3890	4290
70°	2998	3798	4005
75°	2861	3471	3699
80°	2681	3111	3159
85°	2332	2503	2342



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	129.1	3.2	2.5
10°-20°	371.7	9.1	7.1
20°-30°	567.2	13.9	10.9
30°-40°	688.9	16.9	13.2
40°-50°	723.0	17.7	13.9
50°-60°	669.3	16.4	12.9
60°-70°	529.5	13.0	10.2
70°-80°	311.9	7.7	6.0
80°-90°	84.6	2.1	1.6
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°	1068.1	26.2	20.5
0°-40°	1757.0	43.1	33.8
0°-60°	3149.2	77.3	60.6
0°-90°	4075.2	100.0	78.4
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°	4075.2	100.0	78.4

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1362	1362	1362	1362	1362	
5°	1336	1346	1364	1368	1370	127
15°	1282	1296	1324	1336	1341	362
25°	1176	1195	1237	1265	1276	541
35°	1024	1050	1107	1150	1168	640
45°	843	872	941	1001	1025	650
55°	644	675	754	821	846	576
65°	442	474	551	598	608	438
75°	248	277	301	317	321	262
85°	68	71	73	68	68	78
90°	4	6	7	7	8	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1362.3	1362.3	1362.3	1362.3	1362.3
2.5°	1341.3	1350.6	1367.9	1371.4	1372.5
5°	1336.4	1346.1	1364.1	1368.4	1369.5
7.5°	1328.0	1338.4	1357.8	1363.7	1366.0
10°	1316.1	1327.6	1349.3	1357.1	1360.2
12.5°	1301.0	1313.5	1337.8	1348.3	1351.7
15°	1282.3	1295.8	1323.5	1336.4	1341.1
17.5°	1260.4	1275.1	1305.9	1321.3	1329.1
20°	1235.2	1251.2	1285.6	1305.3	1314.0
22.5°	1207.0	1224.5	1262.7	1286.4	1296.2
25°	1175.9	1194.9	1237.0	1265.0	1276.3
27.5°	1141.6	1162.7	1208.3	1240.4	1253.8
30°	1104.9	1127.6	1177.1	1213.3	1227.8
32.5°	1065.5	1089.8	1143.6	1183.2	1199.3
35°	1023.9	1049.8	1107.1	1150.5	1168.2
37.5°	981.0	1008.2	1069.3	1115.8	1135.3
40°	936.3	964.1	1028.9	1079.0	1100.9
42.5°	890.3	918.7	985.4	1040.6	1064.3
45°	842.6	872.0	940.7	1000.7	1025.4
47.5°	794.0	825.1	895.6	959.0	984.1
50°	744.4	776.3	849.2	915.4	940.2
52.5°	694.4	726.1	801.6	869.3	894.0
55°	643.9	675.4	753.7	820.7	845.7
57.5°	593.6	624.6	704.6	770.2	795.9
60°	543.0	573.7	654.5	718.8	743.1
62.5°	492.8	523.2	603.0	664.0	680.7
65°	442.3	473.5	550.8	598.5	607.5
67.5°	392.7	424.2	496.8	524.6	531.3
70°	343.6	375.7	435.2	451.7	458.9
72.5°	295.4	326.8	368.9	383.6	390.4
75°	248.1	277.2	301.0	316.6	320.8
77.5°	201.8	226.7	239.9	250.4	251.2
80°	156.0	172.4	181.0	184.3	183.8
82.5°	111.2	118.5	124.7	122.7	121.2
85°	68.1	70.8	73.1	68.1	68.4
87.5°	29.0	29.7	30.0	27.2	27.9
90°	4.5	5.8	6.8	6.9	7.7

(END OF REPORT)