

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: 23300

Luminaire Tested: **R2-WL-1N5-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 23300
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R2-WL-1N5-22
Description: WITH WHITE INTERIOR AND FROSTED LINEAR PRISMATIC PLASTIC LENS

Light Source: ONE SYLVANIA 14 WATT T5 LAMP

FP14/841. LUMEN RATING = 1200 LMS.

Ballast/Driver: -

Summary

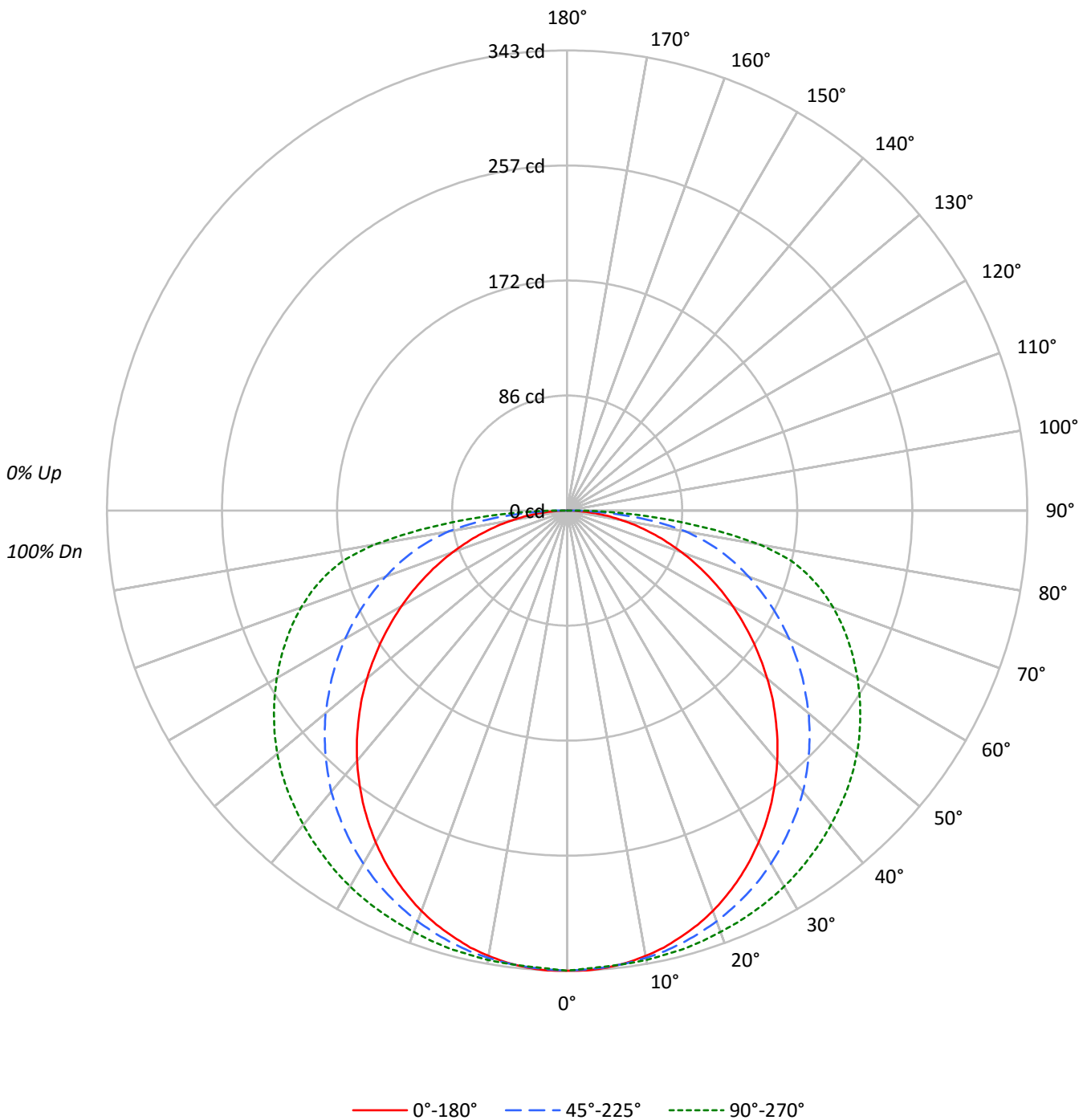
Lumens per Lamp: 1200 (1 lamp)
Luminaire Lumens: 1194.2 lumens
Efficiency: 99.5%
Efficacy: 70.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.41 / 1.46
Luminous Opening: Rectangular (W 1.95' x L: 1.91' x H: 0')
CIE Type: Direct

Input Watts (W): 17
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	118	118	118	118	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	106	101	96	91	104	98	94	90	94	90	87	90	87	84	87	84	82	79
2	96	86	79	72	93	84	77	71	81	75	70	77	72	68	74	70	67	64
3	87	75	66	59	84	73	65	58	70	63	57	67	61	56	65	60	55	53
4	79	66	56	49	76	65	56	49	62	54	48	60	53	47	57	52	47	44
5	72	59	49	42	70	57	48	42	55	47	41	53	46	41	51	45	40	38
6	67	52	43	36	65	51	43	36	50	42	36	48	41	35	46	40	35	33
7	62	47	38	32	60	47	38	32	45	37	31	44	36	31	42	36	31	29
8	57	43	34	28	56	42	34	28	41	33	28	40	33	28	39	32	27	25
9	53	40	31	25	52	39	31	25	38	30	25	37	30	25	36	29	25	23
10	50	36	28	23	49	36	28	23	35	28	23	34	27	22	33	27	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	991	991	991
5°	992	991	989
10°	989	993	998
15°	983	998	1011
20°	977	1002	1028
25°	966	1008	1051
30°	953	1014	1080
35°	937	1021	1113
40°	919	1032	1154
45°	898	1042	1205
50°	875	1057	1268
55°	850	1075	1344
60°	825	1105	1444
65°	797	1147	1583
70°	767	1216	1783
75°	734	1330	2080
80°	692	1493	2427
85°	623	1519	2431



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	32.5	2.7	2.7
10°-20°	94.3	7.9	7.9
20°-30°	146.0	12.2	12.2
30°-40°	181.8	15.2	15.1
40°-50°	197.9	16.6	16.5
50°-60°	193.0	16.2	16.1
60°-70°	169.4	14.2	14.1
70°-80°	128.4	10.8	10.7
80°-90°	50.9	4.3	4.2
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°	272.8	22.8	22.7
0°-40°	454.6	38.1	37.9
0°-60°	845.6	70.8	70.5
0°-90°	1194.2	100.0	99.5
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°	1194.2	100.0	99.5

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	343	343	343	343	343	
5°	342	343	342	341	341	32
15°	329	332	333	337	338	93
25°	303	308	316	326	330	140
35°	266	273	290	308	315	166
45°	220	230	255	283	295	170
55°	169	181	213	251	267	151
65°	117	130	168	213	232	115
75°	66	79	119	166	186	69
85°	19	27	46	65	73	21
90°	1	2	5	8	11	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	343.0	343.0	343.0	343.0	343.0
2.5°	343.1	344.2	342.3	341.8	341.6
5°	342.0	343.1	341.5	341.3	341.0
7.5°	339.9	341.3	340.3	340.7	340.6
10°	337.1	338.8	338.5	339.7	340.1
12.5°	333.6	335.7	336.4	338.4	338.9
15°	328.7	331.6	333.4	336.9	338.0
17.5°	323.7	326.7	329.9	334.5	336.3
20°	317.6	321.1	325.8	331.9	334.2
22.5°	310.6	314.8	321.1	329.0	332.2
25°	302.9	307.9	316.0	325.9	329.7
27.5°	294.6	300.2	310.3	321.9	326.8
30°	285.5	291.8	303.9	317.8	323.6
32.5°	275.7	282.7	297.0	313.2	319.8
35°	265.5	273.2	289.5	307.9	315.4
37.5°	254.7	263.2	281.7	302.4	310.9
40°	243.6	252.7	273.5	296.3	305.9
42.5°	231.9	241.6	264.3	289.7	300.4
45°	219.8	230.1	254.9	282.7	294.9
47.5°	207.6	218.5	245.1	275.7	288.7
50°	194.7	206.3	235.0	267.9	282.0
52.5°	181.7	193.6	224.0	259.4	274.7
55°	168.7	181.1	213.4	250.7	266.8
57.5°	155.6	168.5	202.3	241.6	258.5
60°	142.7	155.7	191.1	232.4	249.9
62.5°	129.6	142.8	179.5	222.7	240.9
65°	116.6	129.9	167.7	212.6	231.5
67.5°	103.6	117.0	155.8	202.2	221.6
70°	90.8	104.2	143.9	191.1	211.0
72.5°	78.1	91.6	131.8	179.3	199.4
75°	65.7	78.9	119.1	166.1	186.3
77.5°	53.5	66.5	105.3	150.9	170.4
80°	41.6	53.9	89.7	130.2	145.8
82.5°	30.0	40.9	69.8	99.7	110.8
85°	18.8	26.9	45.8	65.1	73.3
87.5°	8.0	12.4	21.7	32.4	37.4
90°	0.9	2.2	4.9	8.5	11.1

(END OF REPORT)