

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: P30596

Luminaire Tested: **R2-WLP-2N5-1C-UNV-22-T1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P30596
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R2-WLP-2N5-1C-UNV-22-T1
Description: CORELITE 2X2 SHALLOW RECESSED DIRECT INDIRECT LINEAR
FLUORESCENT LUMINAIRE WITH A WHITE UPPER REFLECTOR AND
FROSTED ROUNDED PRISMATIC LENS WITH PRISMS RUNNING HORIZONTAL
OVER LAMP MOUNTING
Light Source: (2) PHILIPS DOUBLE ENDED BI-PIN T5 FLUORESCENT LAMPS 3500K
PHILIPS F14T5/835
Ballast/Driver: UNIVERSAL LIGHTING ELECTRONIC DRIVER
ULT B228PUNV-C

Summary

Lumens per Lamp: 1350 (2 lamps)
Luminaire Lumens: 2624.5 lumens
Efficiency: 97.2%
Efficacy: 79.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.43
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

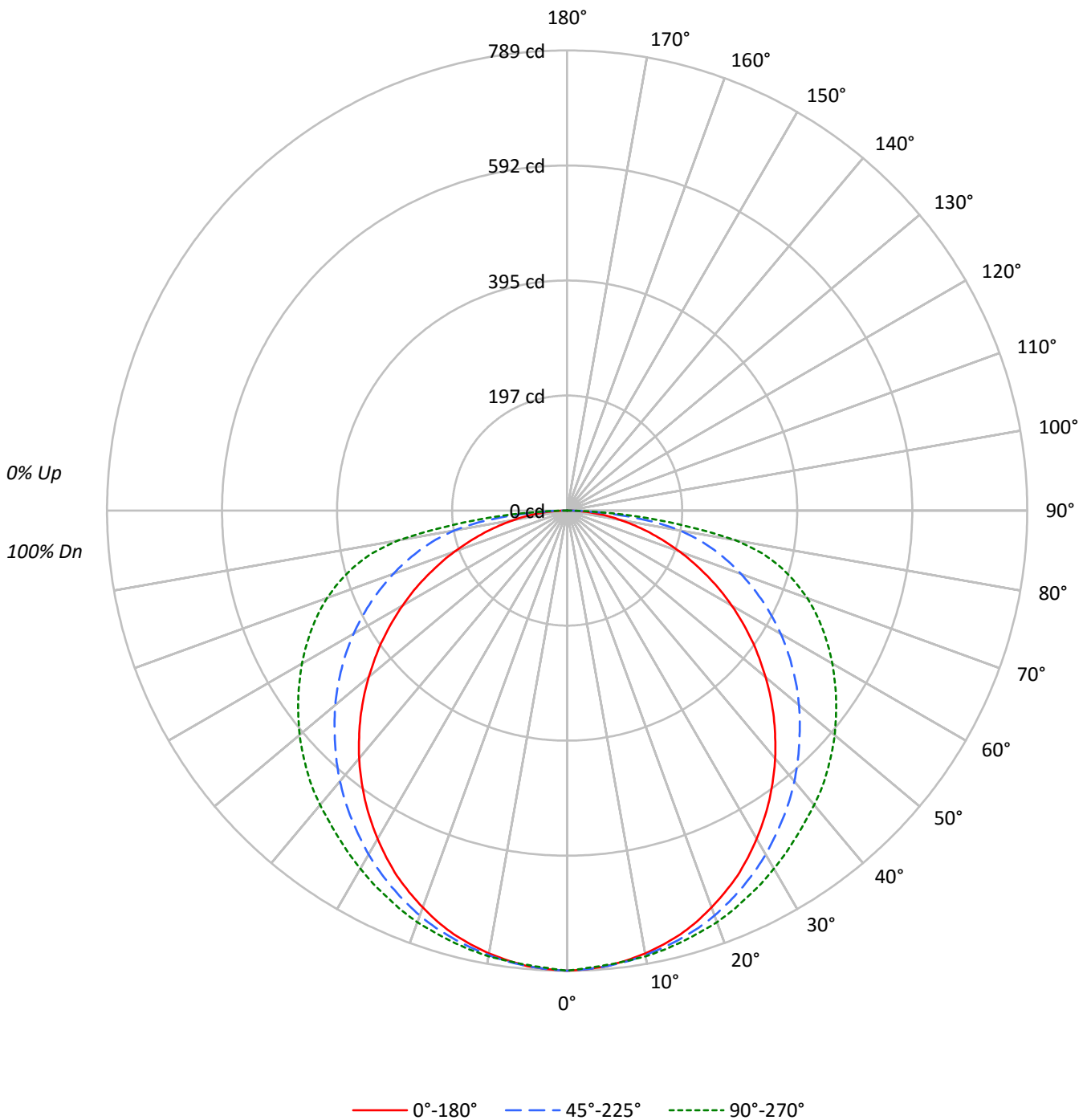
Input Watts (W): 33
Input Voltage (V): 120.06
Input Current (Ain): 0.2683
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P30596

CATALOG NUMBER: R2-WLP-2N5-1C-UNV-22-T1

Luminous Intensity Polar Plot





TEST NUMBER: P30596

CATALOG NUMBER: R2-WLP-2N5-1C-UNV-22-T1

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	50	30	10	0	
RCR																						
0	116	116	116	116	113	113	113	113	108	108	108	103	103	103	99	99	99	99	99	99	97	
1	104	99	94	90	101	97	92	88	92	89	85	88	85	83	85	82	80	85	82	80	78	
2	94	85	77	71	91	83	76	70	79	74	69	76	71	67	73	69	66	73	69	66	63	
3	85	74	65	58	82	72	64	58	69	62	57	66	60	56	64	59	55	64	59	55	52	
4	77	65	56	49	75	64	55	48	61	54	48	59	52	47	56	51	46	56	51	46	44	
5	71	58	48	41	69	57	48	41	54	47	41	52	46	40	51	45	40	51	45	40	38	
6	65	52	43	36	63	51	42	36	49	41	35	47	40	35	46	40	35	46	40	35	33	
7	61	47	38	32	59	46	37	31	44	37	31	43	36	31	42	35	31	42	35	31	29	
8	56	43	34	28	55	42	34	28	41	33	28	39	32	28	38	32	27	38	32	27	25	
9	53	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	35	29	25	23	
10	49	36	28	23	48	35	28	23	34	27	23	33	27	22	33	27	22	33	27	22	21	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2123	2123	2123
5°	2118	2118	2112
10°	2107	2115	2120
15°	2095	2115	2131
20°	2073	2116	2151
25°	2052	2114	2170
30°	2020	2116	2203
35°	1987	2119	2247
40°	1950	2129	2315
45°	1907	2143	2401
50°	1859	2173	2508
55°	1811	2214	2641
60°	1755	2277	2826
65°	1687	2362	3082
70°	1613	2494	3446
75°	1528	2714	3961
80°	1441	3037	4556
85°	1359	2810	3921



TEST NUMBER: P30596

CATALOG NUMBER: R2-WLP-2N5-1C-UNV-22-T1

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	74.5	2.8	2.8
10°-20°	214.2	8.2	7.9
20°-30°	328.2	12.5	12.2
30°-40°	403.7	15.4	15.0
40°-50°	436.0	16.6	16.1
50°-60°	423.0	16.1	15.7
60°-70°	368.8	14.1	13.7
70°-80°	275.6	10.5	10.2
80°-90°	100.2	3.8	3.7
90°-100°	0.2	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°	616.9	23.5	22.8
0°-40°	1020.6	38.9	37.8
0°-60°	1879.7	71.6	69.6
0°-90°	2624.3	100.0	97.2
90°-120°	0.2	0.0	0.0
90°-150°	0.2	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	2624.5	100.0	97.2

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	789	789	789	789	789	
5°	784	784	784	783	782	74
15°	752	754	759	763	765	212
25°	691	697	712	726	731	318
35°	605	617	645	672	684	378
45°	501	519	563	611	631	386
55°	386	408	472	537	563	345
65°	265	293	371	452	484	263
75°	147	179	261	347	381	156
85°	44	62	91	117	127	46
90°	1	1	2	2	1	3
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P30596

CATALOG NUMBER: R2-WLP-2N5-1C-UNV-22-T1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	789	789	789	789	789
2.5°	787	788	787	786	785
5°	784	784	784	783	782
7.5°	778	779	780	780	779
10°	771	772	774	775	776
12.5°	762	764	767	770	771
15°	752	754	759	763	765
17.5°	739	742	750	756	758
20°	724	729	739	747	751
22.5°	708	714	726	737	742
25°	691	697	712	726	731
27.5°	671	679	697	714	721
30°	650	659	681	701	709
32.5°	628	639	663	687	697
35°	605	617	645	672	684
37.5°	580	594	626	658	671
40°	555	570	606	642	659
42.5°	528	545	585	627	646
45°	501	519	563	611	631
47.5°	473	492	541	594	615
50°	444	465	519	576	599
52.5°	415	437	496	556	581
55°	386	408	472	537	563
57.5°	356	379	448	516	544
60°	326	350	423	495	525
62.5°	296	322	397	474	505
65°	265	293	371	452	484
67.5°	235	264	344	428	462
70°	205	236	317	404	438
72.5°	175	207	290	377	411
75°	147	179	261	347	381
77.5°	119	151	231	313	345
80°	93	123	196	271	294
82.5°	68	94	152	193	208
85°	44	62	91	117	127
87.5°	21	28	38	45	48
90°	1	1	2	2	1
92.5°	0	0	0	0	0
95°	0	0	0	0	0
97.5°	0	0	0	0	0
100°	0	0	0	0	0
102.5°	0	0	0	0	0
105°	0	0	0	0	0
107.5°	0	0	0	0	0
110°	0	0	0	0	0



TEST NUMBER: P30596

CATALOG NUMBER: R2-WLP-2N5-1C-UNV-22-T1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0	0	0	0	0
115°	0	0	0	0	0
117.5°	0	0	0	0	0
120°	0	0	0	0	0
122.5°	0	0	0	0	0
125°	0	0	0	0	0
127.5°	0	0	0	0	0
130°	0	0	0	0	0
132.5°	0	0	0	0	0
135°	0	0	0	0	0
137.5°	0	0	0	0	0
140°	0	0	0	0	0
142.5°	0	0	0	0	0
145°	0	0	0	0	0
147.5°	0	0	0	0	0
150°	0	0	0	0	0
152.5°	0	0	0	0	0
155°	0	0	0	0	0
157.5°	0	0	0	0	0
160°	0	0	0	0	0
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)