

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: P30552

Luminaire Tested: **Z3-WC-G-2N5-1C-UNV-22-T1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P30552
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WC-G-2N5-1C-UNV-22-T1
Description: CORELITE 2X2 SHALLOW RECESSED FIXTURE WITH WHITE UPPER REFLECTOR AND CLEAR PRISMATIC LENS WITH A PERF INLAY OVER LAMP MOUNTING & TWO MICRO ACRYLIC LENS OVER CURVED REFLECTORS
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: 2322.6 lumens
Efficiency: 86.0%
Efficacy: 72.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.53 / 1.55
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

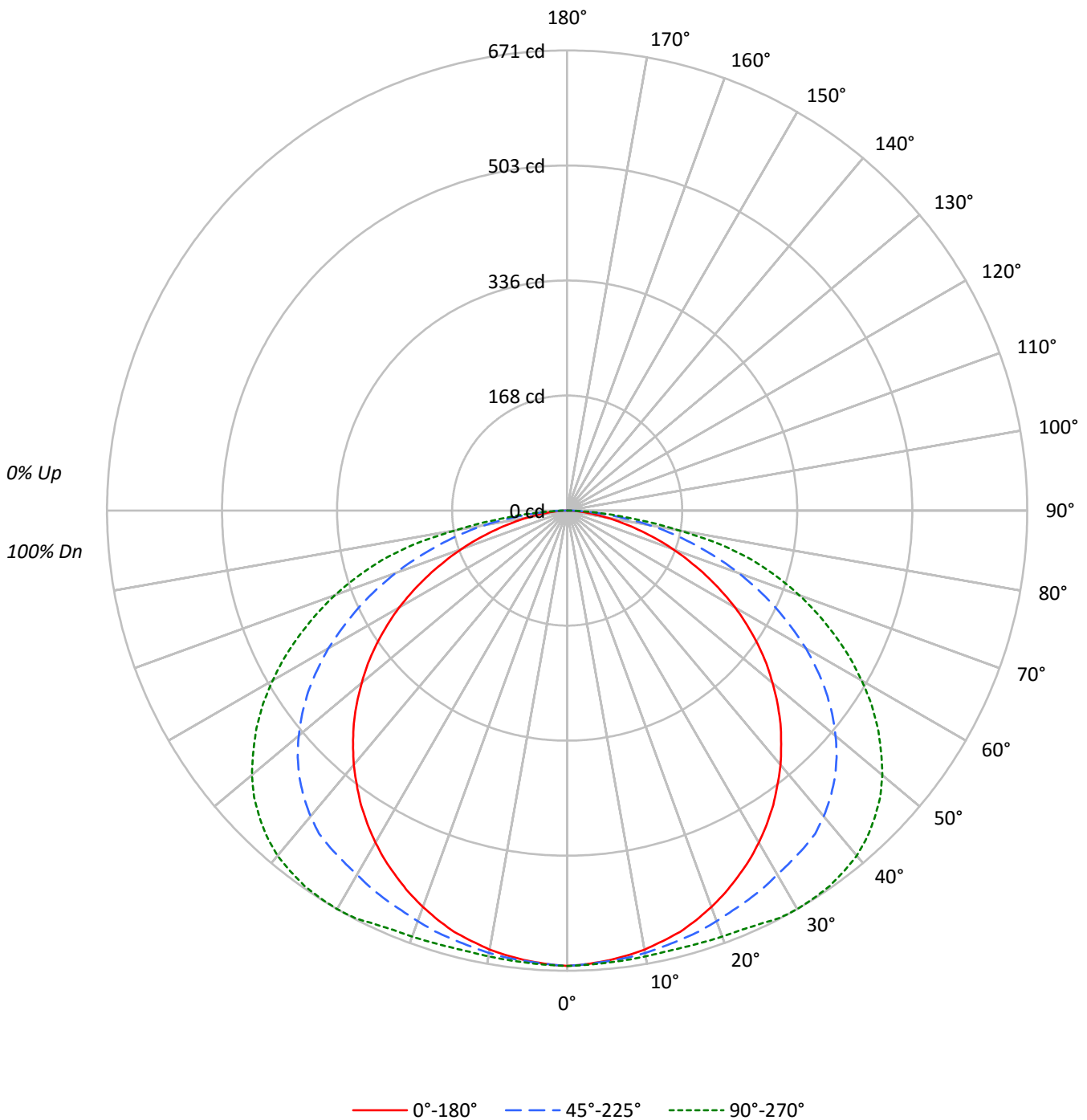
Input Watts (W): 32.2
Input Voltage (V): 119.99
Input Current (A_{in}): 0.2695
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	102	102	102	102	100	100	100	100	96	96	96	92	92	92	88	88	88	86				86
1	93	88	84	81	90	86	83	79	83	80	77	79	77	75	76	74	72	70				70
2	84	76	70	65	81	74	69	64	71	66	62	69	64	61	66	62	59	58				58
3	76	66	59	53	74	65	58	52	62	56	51	60	55	50	58	53	50	48				48
4	69	58	50	44	67	57	50	44	55	48	43	53	47	43	51	46	42	40				40
5	63	52	44	38	61	51	43	37	49	42	37	47	41	36	45	40	36	34				34
6	58	46	38	32	57	45	38	32	44	37	32	42	36	32	41	36	31	29				29
7	54	42	34	28	52	41	34	28	40	33	28	38	32	28	37	32	28	26				26
8	50	38	30	25	49	37	30	25	36	30	25	35	29	25	34	29	24	23				23
9	47	35	27	22	45	34	27	22	33	27	22	32	26	22	31	26	22	20				20
10	44	32	25	20	43	31	25	20	31	24	20	30	24	20	29	24	20	18				18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1787	1787	1787
5°	1780	1783	1788
10°	1776	1790	1803
15°	1772	1802	1836
20°	1761	1824	1893
25°	1749	1859	1974
30°	1737	1905	2085
35°	1721	1974	2194
40°	1700	2044	2308
45°	1674	2101	2413
50°	1637	2139	2512
55°	1590	2163	2594
60°	1523	2164	2669
65°	1420	2139	2744
70°	1290	2093	2832
75°	1112	2007	2911
80°	899	1891	2541
85°	679	1482	1791



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	62.9	2.7	2.3
10°-20°	183.2	7.9	6.8
20°-30°	289.7	12.5	10.7
30°-40°	374.6	16.1	13.9
40°-50°	419.2	18.0	15.5
50°-60°	405.4	17.5	15.0
60°-70°	328.7	14.2	12.2
70°-80°	204.2	8.8	7.6
80°-90°	54.6	2.4	2.0
90°-100°	0.1	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°	535.7	23.1	19.8
0°-40°	910.3	39.2	33.7
0°-60°	1734.9	74.7	64.3
0°-90°	2322.4	100.0	86.0
90°-120°	0.1	0.0	0.0
90°-150°	0.1	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	2322.6	100.0	86.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	664	664	664	664	664	
5°	659	660	660	661	662	63
15°	636	639	647	656	659	179
25°	589	600	626	653	665	272
35°	524	545	601	651	668	328
45°	440	474	552	613	634	339
55°	339	383	461	529	553	303
65°	223	263	336	405	431	221
75°	107	137	193	256	280	114
85°	22	32	48	59	58	25
90°	1	1	1	1	1	2
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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	664	664	664	664	664
2.5°	662	662	662	663	663
5°	659	660	660	661	662
7.5°	655	656	658	660	661
10°	650	651	655	659	660
12.5°	643	646	651	657	659
15°	636	639	647	656	659
17.5°	626	631	643	655	660
20°	615	622	637	654	661
22.5°	603	611	631	653	662
25°	589	600	626	653	665
27.5°	575	587	620	655	670
30°	559	574	613	657	671
32.5°	542	560	607	655	670
35°	524	545	601	651	668
37.5°	504	529	594	645	663
40°	484	512	582	637	657
42.5°	462	493	568	627	647
45°	440	474	552	613	634
47.5°	416	453	533	596	619
50°	391	431	511	577	600
52.5°	366	408	487	554	577
55°	339	383	461	529	553
57.5°	311	355	432	501	526
60°	283	325	402	471	496
62.5°	253	294	369	439	465
65°	223	263	336	405	431
67.5°	193	230	301	370	396
70°	164	199	266	333	360
72.5°	135	167	229	295	321
75°	107	137	193	256	280
77.5°	81	107	158	213	230
80°	58	80	122	158	164
82.5°	38	55	82	106	108
85°	22	32	48	59	58
87.5°	9	13	20	22	22
90°	1	1	1	1	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



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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)