

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: P30553

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P30553
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WC-L-2N5-1C-UNV-22-T1
Description: CORELITE 2X2 SHALLOW RECESSED FIXTURE WITH WHITE UPPER REFLECTOR AND CLEAR PRISMATIC LENS WITH A FROST 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

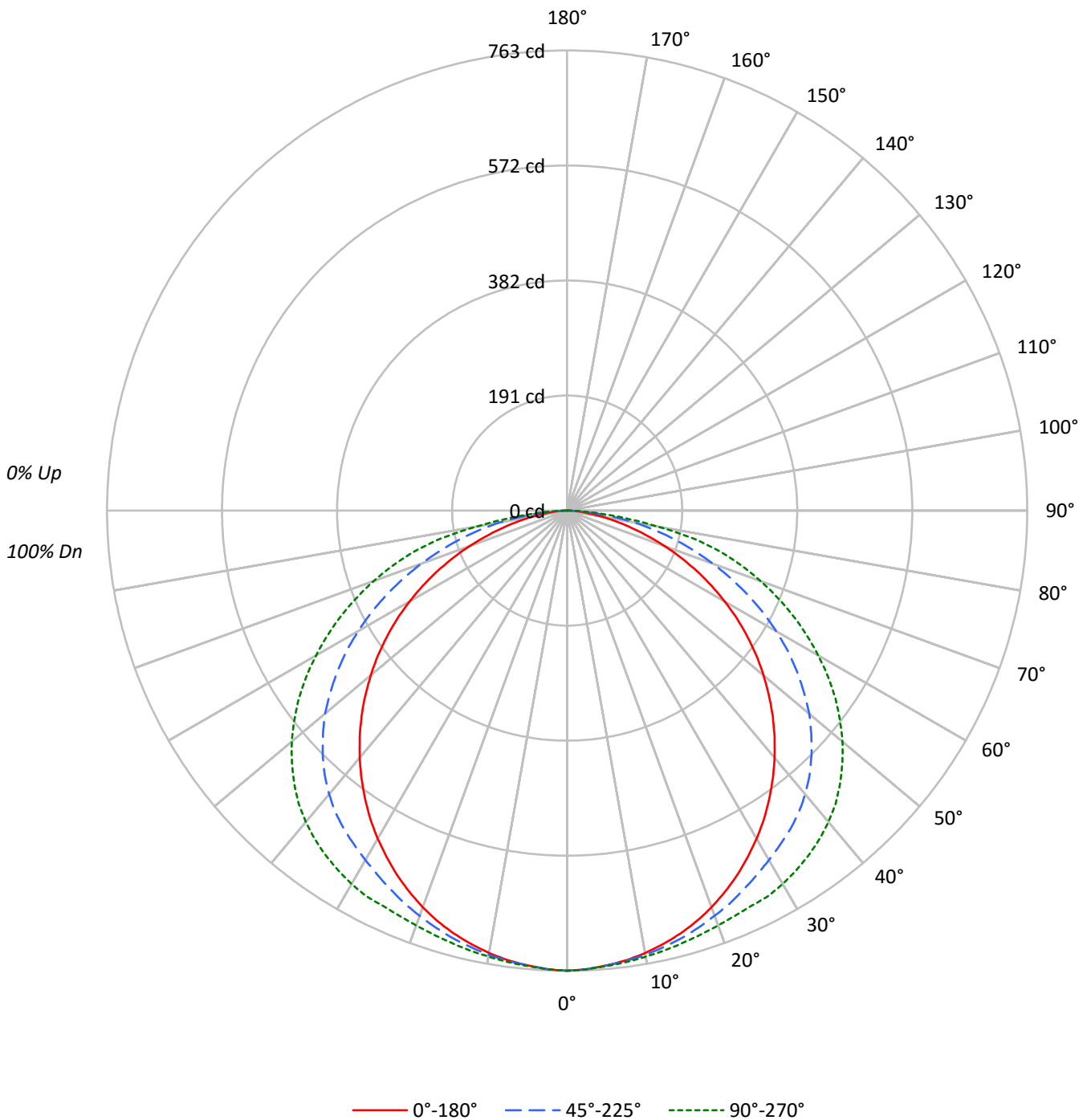
Lumens per Lamp: 1350 (2 lamps)
Luminaire Lumens: 2421.1 lumens
Efficiency: 89.7%
Efficacy: 75.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.41 / 1.46
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 32.3
Input Voltage (V): 119.99
Input Current (Ain): 0.2696
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	107	107	107	107	104	104	104	104	100	100	100	95	95	95	91	91	91	90
1	97	93	89	85	95	91	87	84	87	84	81	83	81	78	80	78	76	74
2	88	80	74	68	85	78	73	68	75	70	66	72	68	64	69	66	63	61
3	80	70	62	56	77	68	61	56	66	60	55	63	58	54	61	57	53	51
4	73	62	53	47	71	60	53	47	58	51	46	56	50	46	54	49	45	43
5	67	55	47	40	65	54	46	40	52	45	40	50	44	39	48	43	39	37
6	62	49	41	35	60	48	41	35	47	40	35	45	39	34	44	38	34	32
7	57	44	36	31	55	44	36	31	42	35	30	41	35	30	40	34	30	28
8	53	40	33	27	51	40	32	27	39	32	27	37	31	27	36	31	27	25
9	49	37	30	24	48	37	29	24	35	29	24	34	28	24	34	28	24	22
10	46	34	27	22	45	34	27	22	33	26	22	32	26	22	31	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2053	2053	2053
5°	2045	2045	2048
10°	2036	2044	2052
15°	2023	2045	2067
20°	2005	2048	2096
25°	1980	2058	2147
30°	1951	2079	2222
35°	1918	2119	2293
40°	1879	2157	2368
45°	1834	2181	2436
50°	1779	2194	2495
55°	1712	2182	2548
60°	1625	2153	2589
65°	1509	2101	2636
70°	1353	2022	2683
75°	1144	1913	2724
80°	914	1751	2356
85°	648	1328	1575



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	72.0	3.0	2.7
10°-20°	207.3	8.6	7.7
20°-30°	320.5	13.2	11.9
30°-40°	402.2	16.6	14.9
40°-50°	436.8	18.0	16.2
50°-60°	411.2	17.0	15.2
60°-70°	325.0	13.4	12.0
70°-80°	195.8	8.1	7.3
80°-90°	50.1	2.1	1.9
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°	599.9	24.8	22.2
0°-40°	1002.1	41.4	37.1
0°-60°	1850.0	76.4	68.5
0°-90°	2420.9	100.0	89.7
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°	2421.1	100.0	89.7

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	763	763	763	763	763	
5°	757	757	757	758	758	72
15°	726	728	734	739	742	205
25°	667	674	693	714	723	307
35°	584	600	645	684	698	365
45°	482	509	573	623	640	372
55°	365	402	465	522	543	326
65°	237	269	330	391	414	234
75°	110	135	184	240	262	118
85°	21	29	43	53	51	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°	763	763	763	763	763
2.5°	761	761	761	761	761
5°	757	757	757	758	758
7.5°	752	752	753	754	755
10°	745	746	748	750	751
12.5°	736	738	741	745	747
15°	726	728	734	739	742
17.5°	714	717	725	734	737
20°	700	704	715	727	732
22.5°	684	690	705	720	727
25°	667	674	693	714	723
27.5°	648	657	681	709	721
30°	628	639	669	704	715
32.5°	607	620	657	695	707
35°	584	600	645	684	698
37.5°	560	579	631	672	687
40°	535	557	614	658	674
42.5°	509	534	595	642	659
45°	482	509	573	623	640
47.5°	454	484	549	602	619
50°	425	457	524	577	596
52.5°	396	431	495	551	570
55°	365	402	465	522	543
57.5°	334	370	434	492	513
60°	302	338	400	459	481
62.5°	270	304	366	425	448
65°	237	269	330	391	414
67.5°	204	235	294	354	378
70°	172	201	257	317	341
72.5°	140	167	220	279	303
75°	110	135	184	240	262
77.5°	83	105	148	199	215
80°	59	77	113	145	152
82.5°	38	52	74	97	98
85°	21	29	43	53	51
87.5°	9	12	17	20	19
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)