

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: P30660

Luminaire Tested: **Z3-WN-2T8-1C-UNV-22**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P30660  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: Z3-WN-2T8-1C-UNV-22  
Description: CORELITE 2x2 SHALLOW RECESSED FIXTURE WITH A WHITE UPPER REFLECTOR AND A CLEAR FLAT LENS WITH A FROST INLAY OVER LAMP MOUNTING & TWO MICRO ACRYLIC LENS OVER CURVED REFLECTORS  
Light Source: (2) PHILIPS DOUBLE ENDED BI-PIN T8 FLUORESCENT LAMPS 4100K PHILIPS F17T8/TL841 17 W  
Ballast/Driver: GE ELECTRONIC BALLAST GE232-MVPS-N

**Summary**

Lumens per Lamp: 1300 (2 lamps)  
Luminaire Lumens: 2063.6 lumens  
Efficiency: 79.4%  
Efficacy: 73.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.47 / 1.51  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

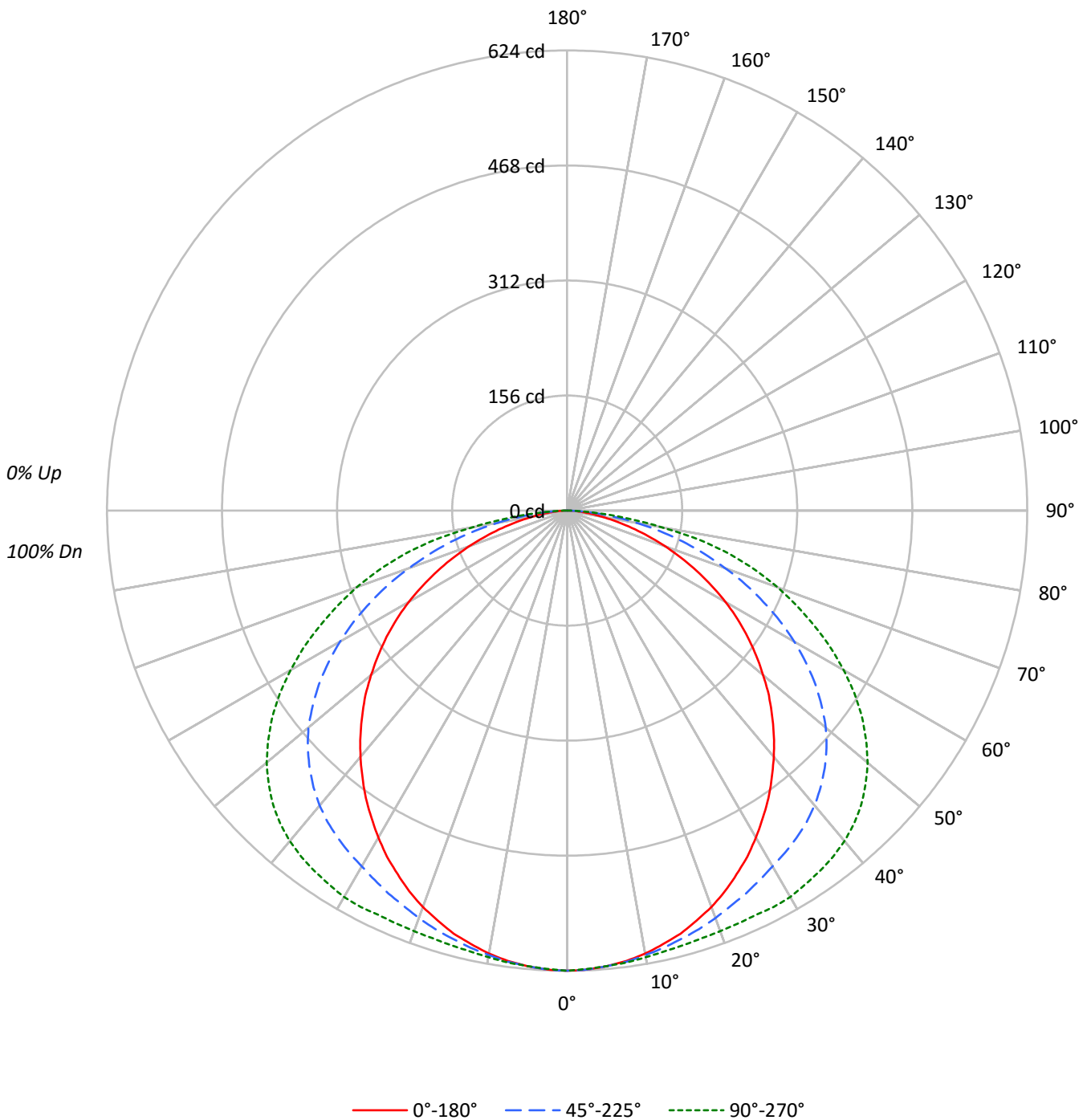
Input Watts (W): 28  
Input Voltage (V): 120.06  
Input Current (A<sub>in</sub>): 0.2322  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	94	94	94	94	92	92	92	92	88	88	88	84	84	84	81	81	81	79				
1	86	82	78	75	84	80	77	74	77	74	71	73	71	69	71	69	67	65				
2	78	71	65	60	75	69	64	59	66	62	58	64	60	57	61	58	55	54				
3	70	62	55	49	68	60	54	49	58	52	48	56	51	47	54	50	46	45				
4	64	54	47	41	62	53	46	41	51	45	40	49	44	40	47	43	39	38				
5	59	48	41	35	57	47	40	35	46	39	35	44	39	34	42	38	34	32				
6	54	43	36	30	53	42	35	30	41	35	30	40	34	30	38	33	29	28				
7	50	39	32	27	49	38	31	27	37	31	26	36	30	26	35	30	26	24				
8	47	35	28	24	45	35	28	24	34	28	23	33	27	23	32	27	23	22				
9	43	32	26	21	42	32	26	21	31	25	21	30	25	21	29	24	21	19				
10	41	30	23	19	40	29	23	19	29	23	19	28	23	19	27	22	19	17				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1679	1679	1679
5°	1675	1675	1675
10°	1667	1672	1680
15°	1655	1674	1699
20°	1638	1684	1738
25°	1615	1701	1796
30°	1591	1731	1880
35°	1564	1781	1961
40°	1532	1834	2055
45°	1496	1880	2146
50°	1453	1917	2227
55°	1403	1928	2289
60°	1335	1916	2330
65°	1235	1872	2356
70°	1109	1794	2384
75°	946	1684	2371
80°	744	1488	2015
85°	556	1112	1359



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	59.0	2.9	2.3
10°-20°	170.0	8.2	6.5
20°-30°	265.1	12.8	10.2
30°-40°	337.4	16.4	13.0
40°-50°	374.6	18.2	14.4
50°-60°	359.8	17.4	13.8
60°-70°	285.8	13.8	11.0
70°-80°	169.8	8.2	6.5
80°-90°	42.2	2.0	1.6
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°	494.0	23.9	19.0
0°-40°	831.5	40.3	32.0
0°-60°	1565.8	75.9	60.2
0°-90°	2063.6	100.0	79.4
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°	2063.6	100.0	79.4

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	624	624	624	624	624	
5°	620	620	620	620	620	59
15°	594	596	601	607	610	167
25°	544	551	573	596	605	251
35°	476	493	542	584	597	297
45°	393	425	494	546	564	303
55°	299	342	411	468	488	267
65°	194	231	294	349	370	192
75°	91	116	162	209	228	97
85°	18	24	36	44	44	21
90°	0	0	0	1	1	1
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°	624	624	624	624	624
2.5°	623	623	623	622	622
5°	620	620	620	620	620
7.5°	616	616	617	618	618
10°	610	610	612	614	615
12.5°	602	604	607	611	612
15°	594	596	601	607	610
17.5°	583	586	595	604	608
20°	572	576	588	601	607
22.5°	559	564	580	598	606
25°	544	551	573	596	605
27.5°	529	538	565	594	606
30°	512	523	557	593	605
32.5°	494	508	550	589	601
35°	476	493	542	584	597
37.5°	456	477	533	577	592
40°	436	460	522	569	585
42.5°	415	443	509	559	576
45°	393	425	494	546	564
47.5°	371	406	477	531	549
50°	347	386	458	513	532
52.5°	323	365	435	492	511
55°	299	342	411	468	488
57.5°	274	316	384	442	462
60°	248	289	356	413	433
62.5°	221	260	326	382	403
65°	194	231	294	349	370
67.5°	167	202	262	316	337
70°	141	172	228	281	303
72.5°	115	144	195	246	267
75°	91	116	162	209	228
77.5°	68	90	129	170	184
80°	48	66	96	123	130
82.5°	32	44	63	82	85
85°	18	24	36	44	44
87.5°	8	10	14	15	15
90°	0	0	0	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)