

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: P30551

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P30551
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WL-2N5-1C-UNV-22-T1
Description: CORELITE 2X2 SHALLOW RECESSED FIXTURE WITH WHITE UPPER REFLECTOR AND FOSTED PRISMATIC LENS 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 BALLAST ULT B228PUNV-C

Summary

Lumens per Lamp: 1350 (2 lamps)
Luminaire Lumens: 2481.8 lumens
Efficiency: 91.9%
Efficacy: 76.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.39
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

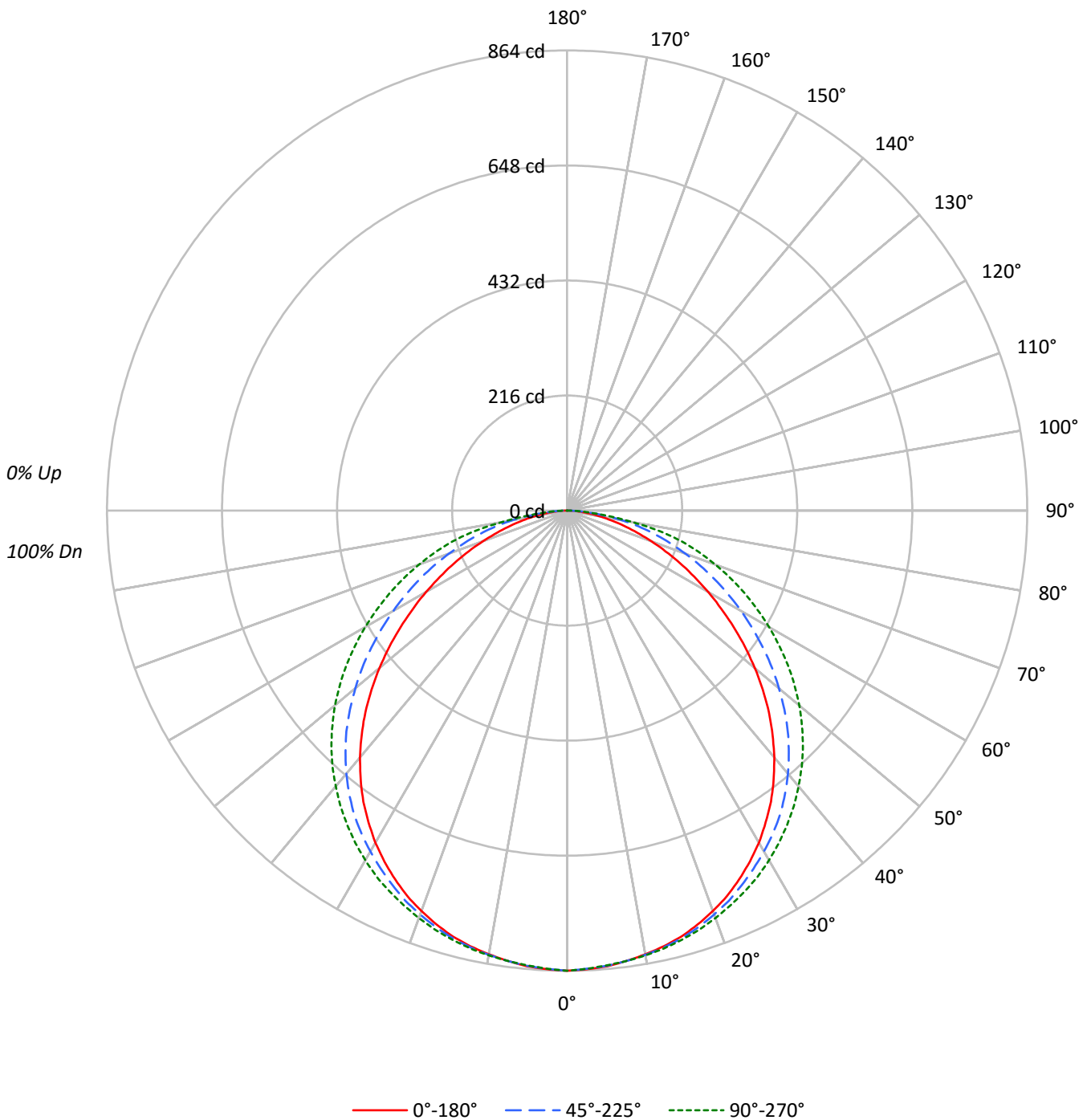
Input Watts (W): 32.4
Input Voltage (V): 119.99
Input Current (Ain): 0.2696
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	109	109	109	107	107	107	107	102	102	102		98	98	98		94	94	94	92
1	100	95	92	88	97	93	90	87	89	87	84		86	83	81		83	81	79	77
2	91	83	77	72	88	81	76	71	78	73	69		75	71	67		72	69	66	64
3	83	73	65	59	80	71	64	59	69	63	58		66	61	57		64	59	56	54
4	76	65	56	50	74	63	56	50	61	54	49		59	53	49		57	52	48	46
5	70	58	49	43	68	57	49	43	55	48	42		53	47	42		51	46	42	40
6	64	52	44	38	62	51	43	38	49	42	37		48	42	37		46	41	37	35
7	60	47	39	33	58	46	39	33	45	38	33		44	37	33		42	37	32	31
8	55	43	35	30	54	42	35	30	41	34	29		40	34	29		39	33	29	27
9	52	39	32	27	50	39	32	27	38	31	26		37	31	26		36	30	26	24
10	49	36	29	24	47	36	29	24	35	28	24		34	28	24		33	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2325	2325	2325
5°	2320	2318	2315
10°	2312	2314	2317
15°	2307	2315	2323
20°	2291	2311	2331
25°	2268	2304	2343
30°	2237	2296	2355
35°	2191	2290	2365
40°	2125	2266	2375
45°	2040	2230	2382
50°	1926	2173	2382
55°	1792	2107	2374
60°	1647	2029	2357
65°	1490	1948	2343
70°	1322	1857	2329
75°	1144	1757	2308
80°	961	1612	1906
85°	772	1204	1266



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	81.6	3.3	3.0
10°-20°	234.6	9.5	8.7
20°-30°	357.9	14.4	13.3
30°-40°	434.4	17.5	16.1
40°-50°	449.4	18.1	16.6
50°-60°	400.1	16.1	14.8
60°-70°	301.6	12.2	11.2
70°-80°	177.3	7.1	6.6
80°-90°	45.1	1.8	1.7
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°	674.1	27.2	25.0
0°-40°	1108.4	44.7	41.1
0°-60°	1957.9	78.9	72.5
0°-90°	2481.8	100.0	91.9
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°	2481.8	100.0	91.9

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	864	864	864	864	864	
5°	859	859	858	857	857	82
15°	828	829	831	833	834	233
25°	764	768	776	785	789	352
35°	667	675	697	714	720	416
45°	536	551	586	616	626	412
55°	382	406	449	492	506	342
65°	234	258	306	352	368	232
75°	110	131	169	208	222	118
85°	25	32	39	42	41	28
90°	0	0	0	0	0	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°	864	864	864	864	864
2.5°	862	862	861	861	861
5°	859	859	858	857	857
7.5°	853	854	853	853	853
10°	846	847	847	848	848
12.5°	838	839	840	841	842
15°	828	829	831	833	834
17.5°	815	817	820	823	825
20°	800	803	807	812	814
22.5°	784	786	793	799	802
25°	764	768	776	785	789
27.5°	743	747	758	771	775
30°	720	726	739	754	758
32.5°	694	701	719	735	740
35°	667	675	697	714	720
37.5°	637	646	672	692	699
40°	605	616	645	668	676
42.5°	571	584	616	643	652
45°	536	551	586	616	626
47.5°	498	515	553	587	598
50°	460	480	519	556	569
52.5°	421	444	485	524	538
55°	382	406	449	492	506
57.5°	343	368	413	458	472
60°	306	331	377	423	438
62.5°	269	294	341	388	403
65°	234	258	306	352	368
67.5°	200	224	271	317	332
70°	168	191	236	281	296
72.5°	138	160	202	245	259
75°	110	131	169	208	222
77.5°	85	103	137	170	178
80°	62	78	104	121	123
82.5°	42	54	69	79	78
85°	25	32	39	42	41
87.5°	11	13	15	16	16
90°	0	0	0	0	0
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)