

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: P30585

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P30585
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WCP-B-2N5-1C-UNV-22-T1
Description: CORELITE 2X2 SHALLOW RECESSED FIXTURE WITH WHITE UPPER REFLECTOR AND A CLEAR PRISMATIC LENS, A WHITE BAFFLE INLAY WITH PRISMS RUNNING HORIZONTAL IN THE CENTER OF 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 DRIVER ULT B228PUNV-C

Summary

Lumens per Lamp: 1350 (2 lamps)
Luminaire Lumens: 2296.5 lumens
Efficiency: 85.1%
Efficacy: 71.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.48 / 1.46
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

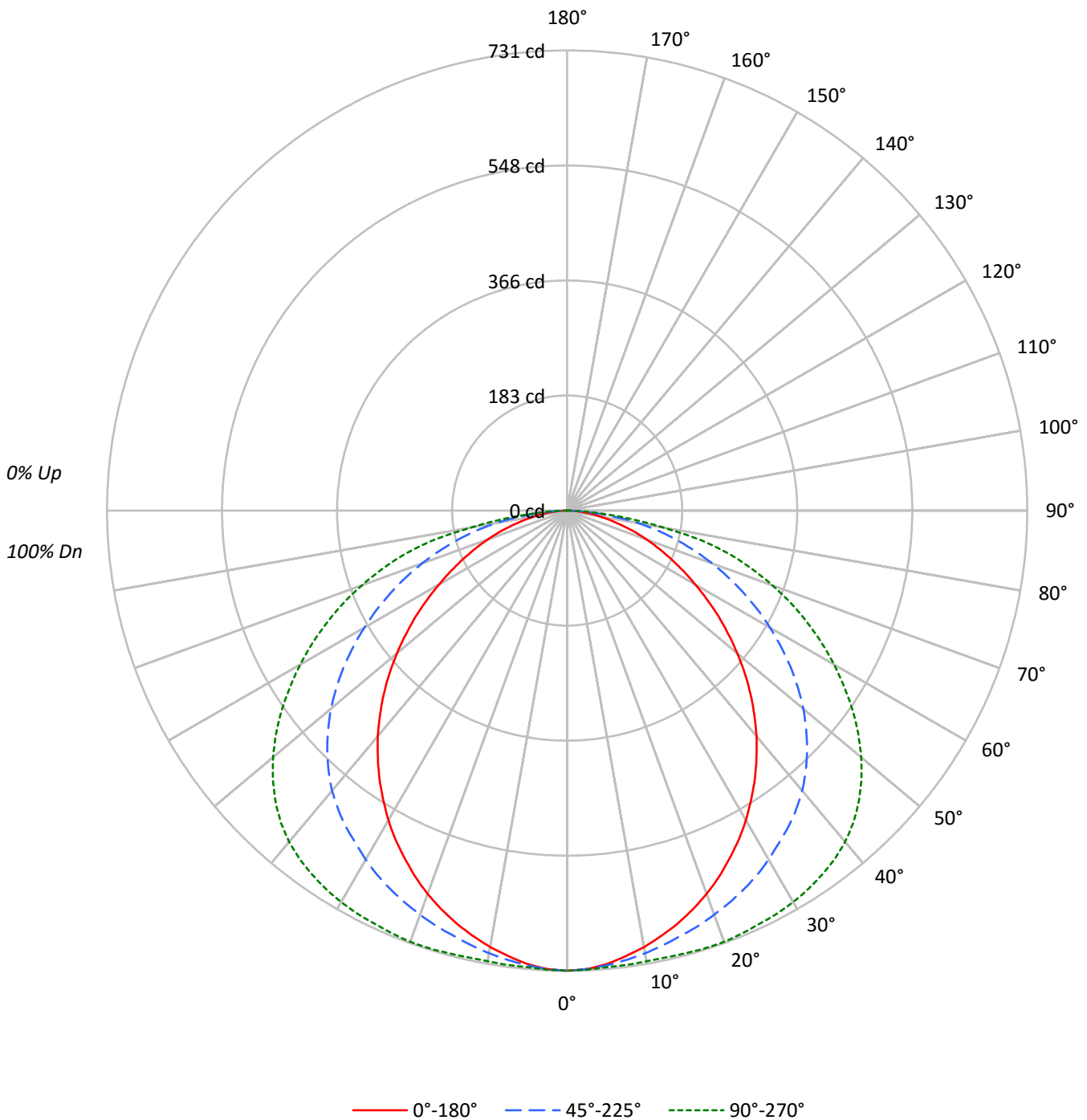
Input Watts (W): 32.2
Input Voltage (V): 120.06
Input Current (A_{in}): 0.2692
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	101	101	101	99	99	99	99	95	95	95		90	90	90		87	87	87	85
1	92	88	84	80	90	86	82	79	82	79	77		79	76	74		76	74	72	70
2	83	76	70	65	81	74	69	64	71	67	62		68	65	61		66	63	60	58
3	76	66	59	53	73	65	58	53	62	57	52		60	55	51		58	54	50	48
4	69	58	51	45	67	57	50	45	55	49	44		53	48	43		51	47	43	41
5	63	52	44	38	62	51	44	38	49	43	38		48	42	37		46	41	37	35
6	58	47	39	33	57	46	39	33	44	38	33		43	37	33		42	36	32	30
7	54	42	35	29	53	42	34	29	40	34	29		39	33	29		38	33	28	27
8	50	38	31	26	49	38	31	26	37	30	26		36	30	26		35	29	25	24
9	47	35	28	23	46	35	28	23	34	27	23		33	27	23		32	27	23	21
10	44	32	26	21	43	32	25	21	31	25	21		30	25	21		30	24	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1967	1967	1967
5°	1953	1958	1967
10°	1924	1951	1987
15°	1892	1947	2028
20°	1856	1956	2088
25°	1811	1972	2150
30°	1765	1989	2231
35°	1708	2014	2319
40°	1644	2041	2413
45°	1568	2051	2493
50°	1478	2051	2554
55°	1379	2031	2599
60°	1265	2002	2637
65°	1159	1968	2681
70°	1054	1928	2730
75°	936	1871	2776
80°	806	1782	2386
85°	648	1389	1667



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	68.9	3.0	2.6
10°-20°	198.3	8.6	7.3
20°-30°	306.9	13.4	11.4
30°-40°	383.2	16.7	14.2
40°-50°	412.8	18.0	15.3
50°-60°	383.3	16.7	14.2
60°-70°	303.1	13.2	11.2
70°-80°	189.1	8.2	7.0
80°-90°	51.0	2.2	1.9
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°	574.1	25.0	21.3
0°-40°	957.2	41.7	35.5
0°-60°	1753.3	76.3	64.9
0°-90°	2296.5	100.0	85.1
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°	2296.5	100.0	85.1

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	731	731	731	731	731	
5°	723	724	725	727	728	68
15°	679	685	699	718	728	191
25°	610	625	664	703	724	281
35°	520	547	613	676	706	325
45°	412	451	539	620	655	317
55°	294	340	433	519	554	263
65°	182	222	309	392	421	181
75°	90	118	180	245	267	96
85°	21	30	45	55	54	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	731	731	731	731	731
2.5°	729	729	729	729	730
5°	723	724	725	727	728
7.5°	714	716	720	725	728
10°	704	707	714	723	727
12.5°	692	696	707	720	727
15°	679	685	699	718	728
17.5°	664	672	692	716	729
20°	648	657	683	713	729
22.5°	630	642	674	709	727
25°	610	625	664	703	724
27.5°	590	607	653	698	722
30°	568	588	640	692	718
32.5°	544	568	626	685	713
35°	520	547	613	676	706
37.5°	494	525	598	665	698
40°	468	502	581	653	687
42.5°	440	477	561	638	673
45°	412	451	539	620	655
47.5°	383	424	515	598	634
50°	353	397	490	574	610
52.5°	323	369	462	548	583
55°	294	340	433	519	554
57.5°	264	311	403	490	522
60°	235	281	372	458	490
62.5°	208	252	341	425	456
65°	182	222	309	392	421
67.5°	158	194	277	357	385
70°	134	168	245	321	347
72.5°	112	142	212	284	308
75°	90	118	180	245	267
77.5°	70	94	148	204	219
80°	52	72	115	150	154
82.5°	36	50	77	101	103
85°	21	30	45	55	54
87.5°	10	13	17	20	20
90°	0	0	0	0	0

(END OF REPORT)