

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: P31392

Luminaire Tested: **E3-WL-2N5-1C-UNV-22-T1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P31392
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E3-WL-2N5-1C-UNV-22-T1
Description: CORELITE 2X2 CLASS E RECESSED FIXTURE WITH FROSTED ROUND PRISMATIC MIDDLE LENS WITH PRISMS FACING UP RUNNING PARALLEL TO LAMPS AND TWO FROSTED LENS ON SIDES
Light Source: (2) BIPIN T5 DOUBLE ENDED LINEAR FLUORESCENT LAMP 3500K F14W/T5/835/ECO 14 WATTS
Ballast/Driver: (1) GE ELECTRONIC BALLAST GE228MVPSH-A

Summary

Lumens per Lamp: 1350 (2 lamps)
Luminaire Lumens: 2176.7 lumens
Efficiency: 80.6%
Efficacy: 56.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.38 / 1.41
Luminous Opening: Rectangular (W 1.77' x L: 1.77' x H: 0')
CIE Type: Direct

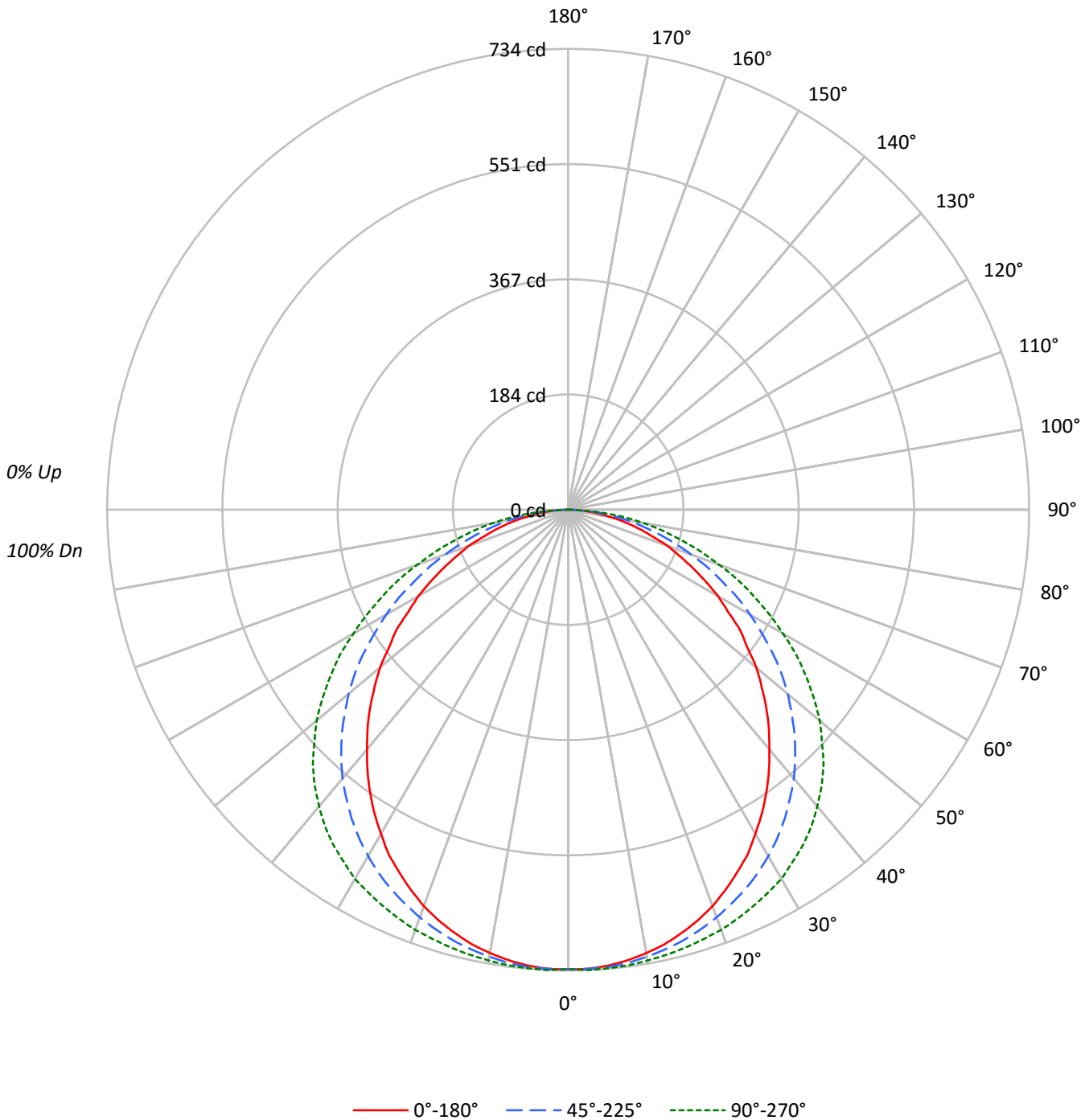
Input Watts (W): 38.5
Input Voltage (V): 120.0
Input Current (Ain): 0.32191
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	96	96	96	96	94	94	94	94	90	90	90	86	86	86	82	82	82	81
1	87	84	80	77	85	82	78	76	78	76	73	75	73	71	72	70	69	67
2	79	73	67	62	77	71	66	62	68	64	60	66	62	59	63	60	57	56
3	72	64	57	52	70	62	56	51	60	55	50	58	53	49	56	52	48	47
4	66	56	49	44	64	55	48	43	53	47	43	51	46	42	49	45	41	40
5	61	50	43	37	59	49	42	37	48	41	37	46	41	36	44	40	36	34
6	56	45	38	33	54	44	37	32	43	37	32	42	36	32	40	35	32	30
7	52	41	34	29	51	40	33	29	39	33	28	38	32	28	37	32	28	26
8	48	37	30	26	47	37	30	25	36	30	25	35	29	25	34	29	25	23
9	45	34	28	23	44	34	27	23	33	27	23	32	27	23	31	26	23	21
10	42	32	25	21	41	31	25	21	30	25	21	30	24	21	29	24	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2513	2513	2513
5°	2512	2519	2526
10°	2499	2520	2541
15°	2480	2523	2566
20°	2455	2524	2601
25°	2413	2526	2640
30°	2362	2525	2691
35°	2305	2518	2732
40°	2231	2505	2765
45°	2165	2476	2791
50°	2088	2435	2793
55°	1999	2376	2765
60°	1888	2300	2712
65°	1771	2193	2648
70°	1686	2088	2559
75°	1552	1963	2454
80°	1384	1838	2372
85°	1260	1733	2048



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	69.5	3.2	2.6
10°-20°	200.5	9.2	7.4
20°-30°	307.4	14.1	11.4
30°-40°	375.8	17.3	13.9
40°-50°	393.1	18.1	14.6
50°-60°	354.6	16.3	13.1
60°-70°	269.3	12.4	10.0
70°-80°	159.1	7.3	5.9
80°-90°	47.4	2.2	1.8
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°	577.4	26.5	21.4
0°-40°	953.2	43.8	35.3
0°-60°	1700.9	78.1	63.0
0°-90°	2176.7	100.0	80.6
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°	2176.7	100.0	80.6

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	732	732	732	732	732	
5°	729	729	731	732	733	69
15°	698	701	710	719	722	197
25°	637	645	667	688	697	293
35°	550	564	601	637	652	344
45°	446	463	510	557	575	344
55°	334	351	397	443	462	297
65°	218	233	270	312	326	217
75°	117	124	148	176	185	124
85°	32	34	44	51	52	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	732	732	732	732	732
2.5°	732	731	732	734	734
5°	729	729	731	732	733
7.5°	724	725	728	731	732
10°	717	719	723	727	729
12.5°	709	711	717	723	726
15°	698	701	710	719	722
17.5°	686	689	701	713	717
20°	672	676	691	705	712
22.5°	655	661	679	698	705
25°	637	645	667	688	697
27.5°	619	627	653	678	688
30°	596	608	637	665	679
32.5°	574	588	620	653	665
35°	550	564	601	637	652
37.5°	525	541	580	620	636
40°	498	515	559	601	617
42.5°	473	490	535	579	597
45°	446	463	510	557	575
47.5°	418	436	483	533	548
50°	391	408	456	504	523
52.5°	359	379	428	475	493
55°	334	351	397	443	462
57.5°	301	320	365	412	431
60°	275	292	335	379	395
62.5°	246	261	304	345	361
65°	218	233	270	312	326
67.5°	191	204	240	278	293
70°	168	177	208	242	255
72.5°	139	151	178	207	221
75°	117	124	148	176	185
77.5°	94	101	120	144	154
80°	70	77	93	114	120
82.5°	51	55	68	83	90
85°	32	34	44	51	52
87.5°	14	14	15	16	15
90°	0	0	0	0	0

(END OF REPORT)