

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: P31385

Luminaire Tested: **E3-WL-2T8-1C-UNV-22-T1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P31385
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E3-WL-2T8-1C-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. SOCKET SPACING 2.5"
Light Source: (2) BIPIN T8 DOUBLE ENDED LINEAR FLUORESCENT LAMP 4100K PHILIPS F17T8/SPX41/ECO
Ballast/Driver: (1) GE ELECTRONIC BALLAST GE232MAX-N-ULTRA

Summary

Lumens per Lamp: 1300 (2 lamps)
Luminaire Lumens: 2074.4 lumens
Efficiency: 79.8%
Efficacy: 67.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.37 / 1.41
Luminous Opening: Rectangular (W 1.77' x L: 1.77' x H: 0')
CIE Type: Direct

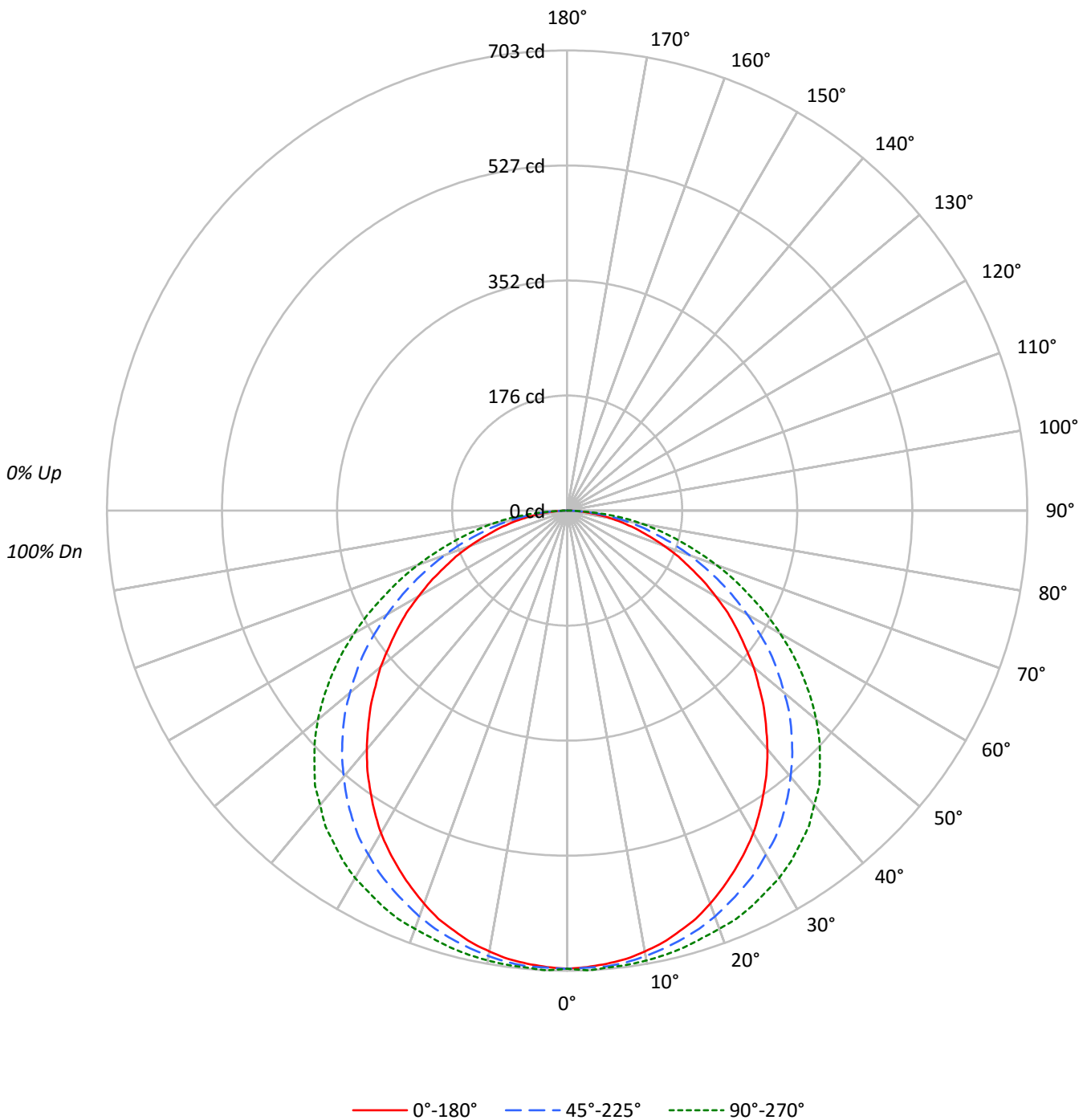
Input Watts (W): 30.6
Input Voltage (V): 120.03
Input Current (A_{in}): 0.2559
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	50	30	10	0													
RCR																																					
0	95	95	95	95	93	93	93	93	89	89	89	85	85	85	81	81	81	80																			
1	87	83	79	76	84	81	78	75	77	75	72	74	72	70	71	70	68	66																			
2	79	72	66	62	76	70	65	61	68	63	59	65	61	58	62	59	57	55																			
3	72	63	56	51	70	62	56	51	59	54	50	57	53	49	55	51	48	46																			
4	65	56	49	43	64	55	48	43	53	47	42	51	46	42	49	45	41	39																			
5	60	50	42	37	58	49	42	37	47	41	36	46	40	36	44	39	36	34																			
6	55	45	37	32	54	44	37	32	42	36	32	41	36	32	40	35	31	30																			
7	51	40	33	28	50	40	33	28	39	33	28	37	32	28	36	31	28	26																			
8	48	37	30	25	47	36	30	25	35	29	25	34	29	25	33	28	25	23																			
9	45	34	27	23	44	33	27	23	32	27	23	32	26	22	31	26	22	21																			
10	42	31	25	21	41	31	25	21	30	24	20	29	24	20	29	24	20	19																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2403	2403	2403
5°	2395	2409	2415
10°	2384	2408	2433
15°	2363	2409	2456
20°	2334	2411	2484
25°	2295	2409	2526
30°	2255	2406	2568
35°	2196	2401	2602
40°	2133	2379	2630
45°	2063	2354	2650
50°	1987	2312	2654
55°	1897	2268	2627
60°	1799	2183	2581
65°	1689	2095	2502
70°	1586	1997	2439
75°	1459	1870	2347
80°	1324	1759	2313
85°	1182	1575	2048



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	66.4	3.2	2.6
10°-20°	191.5	9.2	7.4
20°-30°	293.4	14.1	11.3
30°-40°	358.2	17.3	13.8
40°-50°	374.2	18.0	14.4
50°-60°	337.6	16.3	13.0
60°-70°	256.0	12.3	9.8
70°-80°	151.8	7.3	5.8
80°-90°	45.3	2.2	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°	551.3	26.6	21.2
0°-40°	909.5	43.8	35.0
0°-60°	1621.2	78.2	62.4
0°-90°	2074.4	100.0	79.8
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°	2074.4	100.0	79.8

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	700	700	700	700	700	
5°	695	696	699	701	701	66
15°	665	669	678	687	691	188
25°	606	616	636	657	667	279
35°	524	538	573	607	621	328
45°	425	441	485	529	546	327
55°	317	334	379	421	439	283
65°	208	224	258	294	308	207
75°	110	120	141	168	177	117
85°	30	32	40	50	52	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	700	700	700	700	700
2.5°	698	698	699	701	703
5°	695	696	699	701	701
7.5°	691	692	696	699	700
10°	684	686	691	696	698
12.5°	676	679	685	692	695
15°	665	669	678	687	691
17.5°	654	658	670	681	685
20°	639	645	660	674	680
22.5°	623	631	648	666	675
25°	606	616	636	657	667
27.5°	588	598	623	648	657
30°	569	581	607	635	648
32.5°	547	561	592	622	636
35°	524	538	573	607	621
37.5°	501	514	553	590	607
40°	476	492	531	571	587
42.5°	450	467	509	551	570
45°	425	441	485	529	546
47.5°	397	417	461	505	523
50°	372	390	433	479	497
52.5°	343	363	406	451	469
55°	317	334	379	421	439
57.5°	291	307	348	390	409
60°	262	279	318	358	376
62.5°	236	249	288	326	343
65°	208	224	258	294	308
67.5°	184	196	228	262	276
70°	158	170	199	230	243
72.5°	133	144	170	198	208
75°	110	120	141	168	177
77.5°	88	96	116	137	147
80°	67	73	89	108	117
82.5°	47	52	65	81	87
85°	30	32	40	50	52
87.5°	12	13	14	16	16
90°	0	0	0	0	0

(END OF REPORT)