

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: P31388

Luminaire Tested: **E3-WL-2T5-1C-UNV-22-T1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P31388
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E3-WL-2T5-1C-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 4100K PHILIPS F24 T5/841 HO
Ballast/Driver: (1) ULT ELECTRONIC BALLAST B224PUNV-C

Summary

Lumens per Lamp: 1750 (2 lamps)
Luminaire Lumens: 2753.1 lumens
Efficiency: 78.7%
Efficacy: 55.8 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

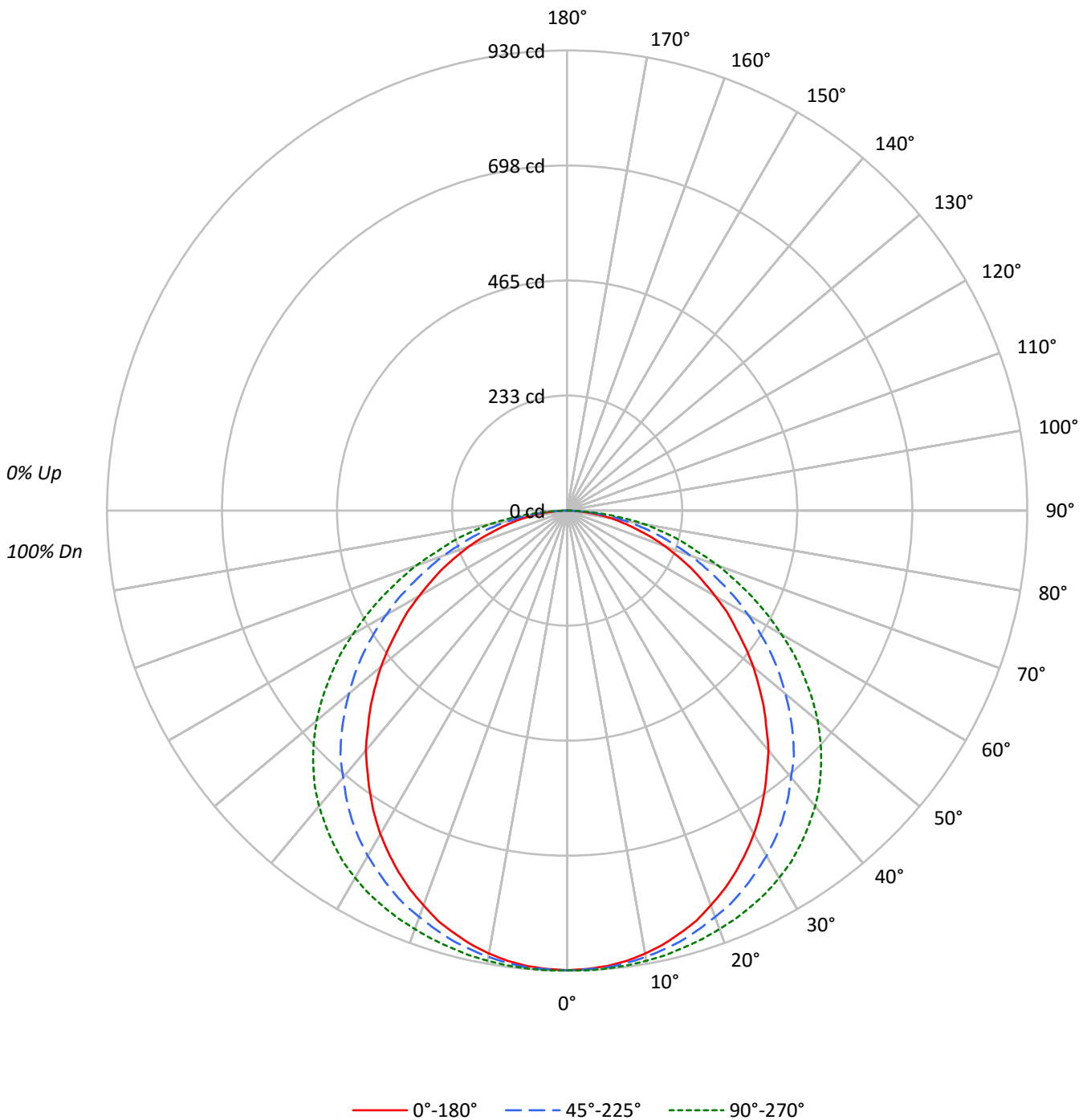
Input Watts (W): 49.3
Input Voltage (V): 120.05
Input Current (A_{in}): 411.2
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	94	94	94	91	91	91	91	87	87	87	84	84	84	80	80	80	79
1	85	81	78	75	83	80	77	74	76	74	71	73	71	69	70	69	67	65
2	77	71	65	61	75	69	64	60	67	62	59	64	60	57	62	59	56	54
3	71	62	56	50	69	61	55	50	58	53	49	56	52	48	54	50	47	46
4	65	55	48	43	63	54	47	42	52	46	42	50	45	41	48	44	40	39
5	59	49	42	37	58	48	41	36	46	40	36	45	40	36	43	39	35	33
6	55	44	37	32	53	43	37	32	42	36	31	41	35	31	39	35	31	29
7	51	40	33	28	49	39	33	28	38	32	28	37	32	28	36	31	27	26
8	47	36	30	25	46	36	29	25	35	29	25	34	28	25	33	28	24	23
9	44	33	27	22	43	33	27	22	32	26	22	31	26	22	30	26	22	21
10	41	31	24	20	40	30	24	20	30	24	20	29	24	20	28	23	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3189	3189	3189
5°	3184	3194	3201
10°	3168	3193	3221
15°	3141	3195	3248
20°	3101	3193	3288
25°	3053	3197	3340
30°	2992	3195	3397
35°	2912	3185	3449
40°	2836	3155	3495
45°	2728	3136	3524
50°	2622	3076	3530
55°	2496	3010	3495
60°	2368	2904	3433
65°	2250	2778	3346
70°	2108	2660	3252
75°	1923	2520	3170
80°	1799	2333	3143
85°	1497	2127	2639



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	88.1	3.2	2.5
10°-20°	253.8	9.2	7.3
20°-30°	389.1	14.1	11.1
30°-40°	475.0	17.3	13.6
40°-50°	496.8	18.0	14.2
50°-60°	448.1	16.3	12.8
60°-70°	340.5	12.4	9.7
70°-80°	201.4	7.3	5.8
80°-90°	60.3	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°	731.0	26.6	20.9
0°-40°	1206.0	43.8	34.5
0°-60°	2150.8	78.1	61.5
0°-90°	2753.1	100.0	78.7
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°	2753.1	100.0	78.7

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	929	929	929	929	929	
5°	924	924	927	928	929	88
15°	884	888	899	909	914	249
25°	806	816	844	871	882	371
35°	695	712	760	805	823	435
45°	562	586	646	703	726	433
55°	417	440	503	562	584	374
65°	277	295	342	394	412	274
75°	145	156	190	221	239	155
85°	38	44	54	65	67	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	929	929	929	929	929
2.5°	927	926	928	930	930
5°	924	924	927	928	929
7.5°	918	919	922	925	927
10°	909	910	916	922	924
12.5°	898	900	908	917	920
15°	884	888	899	909	914
17.5°	869	873	887	903	908
20°	849	857	874	893	900
22.5°	829	837	861	883	892
25°	806	816	844	871	882
27.5°	781	794	825	858	871
30°	755	771	806	843	857
32.5°	726	743	784	826	842
35°	695	712	760	805	823
37.5°	663	683	733	782	802
40°	633	654	704	760	780
42.5°	596	621	678	733	755
45°	562	586	646	703	726
47.5°	526	551	611	670	695
50°	491	514	576	635	661
52.5°	454	479	540	599	624
55°	417	440	503	562	584
57.5°	384	406	463	522	545
60°	345	368	423	478	500
62.5°	310	332	384	437	457
65°	277	295	342	394	412
67.5°	242	260	302	348	367
70°	210	224	265	308	324
72.5°	177	191	225	262	276
75°	145	156	190	221	239
77.5°	117	127	153	181	197
80°	91	97	118	143	159
82.5°	64	69	88	107	114
85°	38	44	54	65	67
87.5°	16	17	19	22	22
90°	0	0	0	0	0

(END OF REPORT)