

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: P31378

Luminaire Tested: **E3-WL-2T8-1C-UNV-24-T1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P31378  
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-24-T1  
Description: CORELITE 2X4 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 T8 DOUBLE ENDED LINEAR FLUORESCENT LAMP 3500K F32T8-XL-SPX41-HL-ECO 32 WATTS  
Ballast/Driver: (1) GE ELECTRONIC BALLAST GE232MAX-N-ULTRA

**Summary**

Lumens per Lamp: 2800 (2 lamps)  
Luminaire Lumens: 4758.9 lumens  
Efficiency: 85.0%  
Efficacy: 93.5 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.38 / 1.42  
Luminous Opening: Rectangular (W 1.75' x L: 3.83' x H: 0')  
CIE Type: Direct

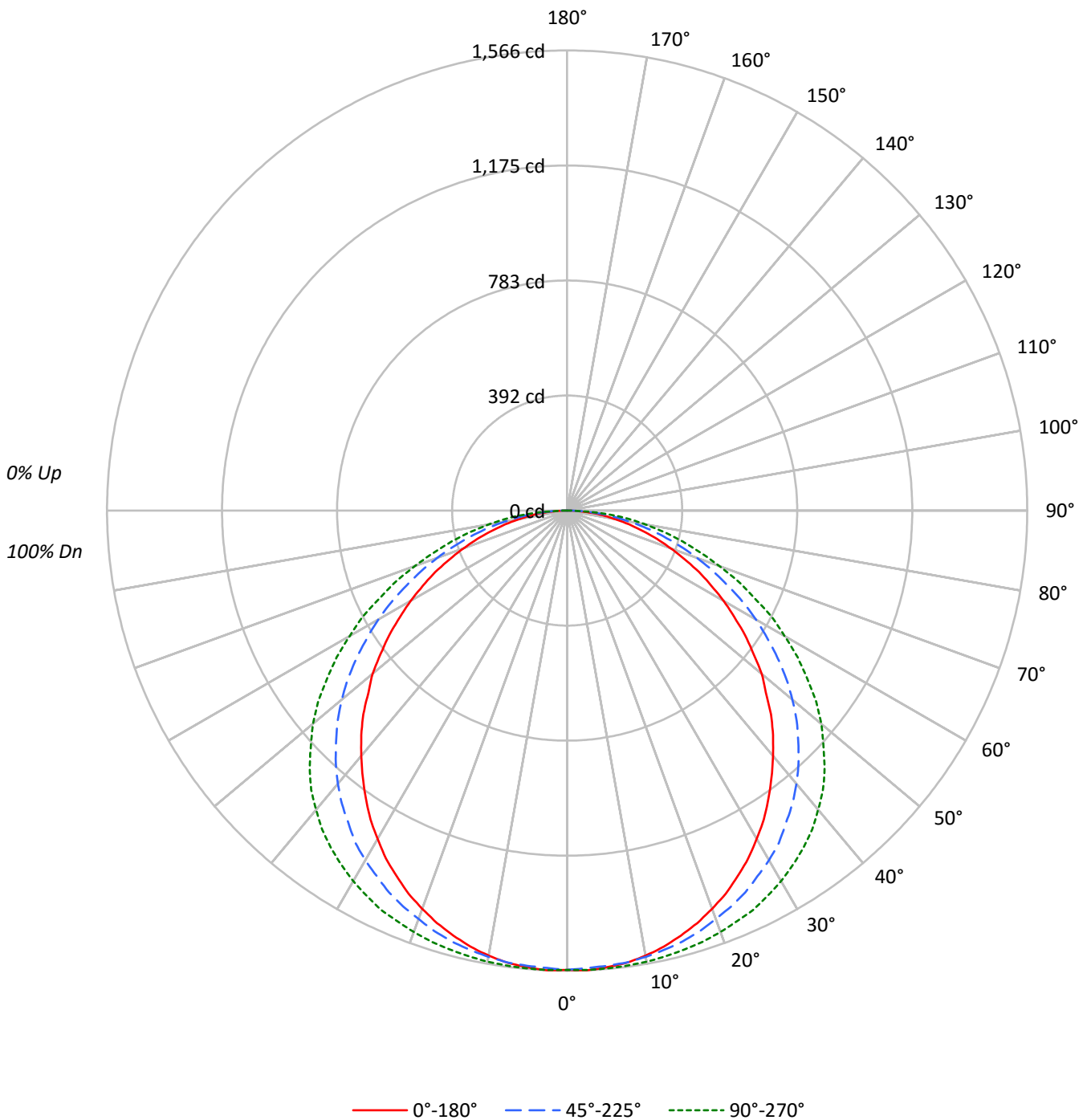
Input Watts (W): 50.9  
Input Voltage (V): 120.02  
Input Current (A<sub>in</sub>): 0.42484  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P31378

CATALOG NUMBER: E3-WL-2T8-1C-UNV-24-T1

### Luminous Intensity Polar Plot





TEST NUMBER: P31378

CATALOG NUMBER: E3-WL-2T8-1C-UNV-24-T1

**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	94	94	94	90	90	90	87	87	87	85
1	92	88	84	81	90	86	82	79	82	79	77	79	77	74	76	74	72	70
2	84	76	70	65	81	75	69	64	72	67	63	69	65	62	66	63	60	58
3	76	67	60	54	74	65	59	53	63	57	53	60	56	52	58	54	51	49
4	69	59	51	46	67	58	51	45	56	50	45	54	48	44	52	47	43	41
5	64	53	45	39	62	52	44	39	50	43	38	48	42	38	47	42	38	36
6	59	47	40	34	57	46	39	34	45	38	34	43	38	33	42	37	33	31
7	55	43	35	30	53	42	35	30	41	34	30	40	34	29	38	33	29	27
8	51	39	32	27	49	38	31	27	37	31	26	36	30	26	35	30	26	24
9	47	36	29	24	46	35	28	24	34	28	24	33	28	24	32	27	23	22
10	44	33	26	22	43	33	26	22	32	26	21	31	25	21	30	25	21	20

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2508	2508	2508
5°	2513	2505	2519
10°	2506	2512	2540
15°	2487	2522	2568
20°	2462	2525	2606
25°	2431	2539	2654
30°	2390	2546	2698
35°	2341	2543	2744
40°	2283	2543	2784
45°	2226	2523	2812
50°	2159	2499	2818
55°	2067	2445	2789
60°	1974	2384	2744
65°	1879	2286	2665
70°	1755	2205	2580
75°	1637	2102	2523
80°	1497	1996	2486
85°	1418	1988	2541



TEST NUMBER: P31378

CATALOG NUMBER: E3-WL-2T8-1C-UNV-24-T1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	148.5	3.1	2.7
10°-20°	429.5	9.0	7.7
20°-30°	661.6	13.9	11.8
30°-40°	813.2	17.1	14.5
40°-50°	856.8	18.0	15.3
50°-60°	779.3	16.4	13.9
60°-70°	597.0	12.5	10.7
70°-80°	358.3	7.5	6.4
80°-90°	114.8	2.4	2.1
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°	1239.6	26.0	22.1
0°-40°	2052.8	43.1	36.7
0°-60°	3688.8	77.5	65.9
0°-90°	4758.9	100.0	85.0
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°	4758.9	100.0	85.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1563	1563	1563	1563	1563	
5°	1560	1560	1555	1562	1564	148
15°	1497	1504	1518	1539	1546	422
25°	1373	1393	1434	1480	1499	633
35°	1195	1227	1298	1375	1401	747
45°	981	1020	1112	1204	1239	755
55°	739	784	874	965	997	660
65°	495	529	602	677	702	488
75°	264	290	339	387	407	281
85°	77	84	108	127	138	86
90°	0	0	0	0	0	



TEST NUMBER: P31378

CATALOG NUMBER: E3-WL-2T8-1C-UNV-24-T1

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1563	1563	1563	1563	1563
2.5°	1566	1563	1558	1563	1565
5°	1560	1560	1555	1562	1564
7.5°	1552	1551	1551	1559	1562
10°	1538	1539	1542	1554	1559
12.5°	1520	1524	1531	1546	1553
15°	1497	1504	1518	1539	1546
17.5°	1472	1481	1501	1527	1538
20°	1442	1455	1479	1513	1526
22.5°	1411	1425	1458	1499	1512
25°	1373	1393	1434	1480	1499
27.5°	1335	1354	1403	1459	1478
30°	1290	1315	1374	1434	1456
32.5°	1246	1273	1341	1407	1430
35°	1195	1227	1298	1375	1401
37.5°	1143	1178	1259	1337	1369
40°	1090	1133	1214	1299	1329
42.5°	1037	1075	1166	1253	1289
45°	981	1020	1112	1204	1239
47.5°	917	961	1060	1150	1183
50°	865	903	1001	1092	1129
52.5°	799	844	940	1028	1068
55°	739	784	874	965	997
57.5°	674	718	807	896	930
60°	615	657	743	827	855
62.5°	553	592	674	751	786
65°	495	529	602	677	702
67.5°	432	469	537	604	631
70°	374	409	470	529	550
72.5°	320	348	404	460	476
75°	264	290	339	387	407
77.5°	215	233	277	320	337
80°	162	177	216	253	269
82.5°	122	129	159	191	207
85°	77	84	108	127	138
87.5°	37	41	50	52	51
90°	0	0	0	0	0

(END OF REPORT)