

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: P31389

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P31389
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E3-WL-1T5-1C-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: (1) 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 (1 lamp)
Luminaire Lumens: 1670.1 lumens
Efficiency: 95.4%
Efficacy: 59.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.38 / 1.42
Luminous Opening: Rectangular (W 1.77' x L: 1.77' x H: 0')
CIE Type: Direct

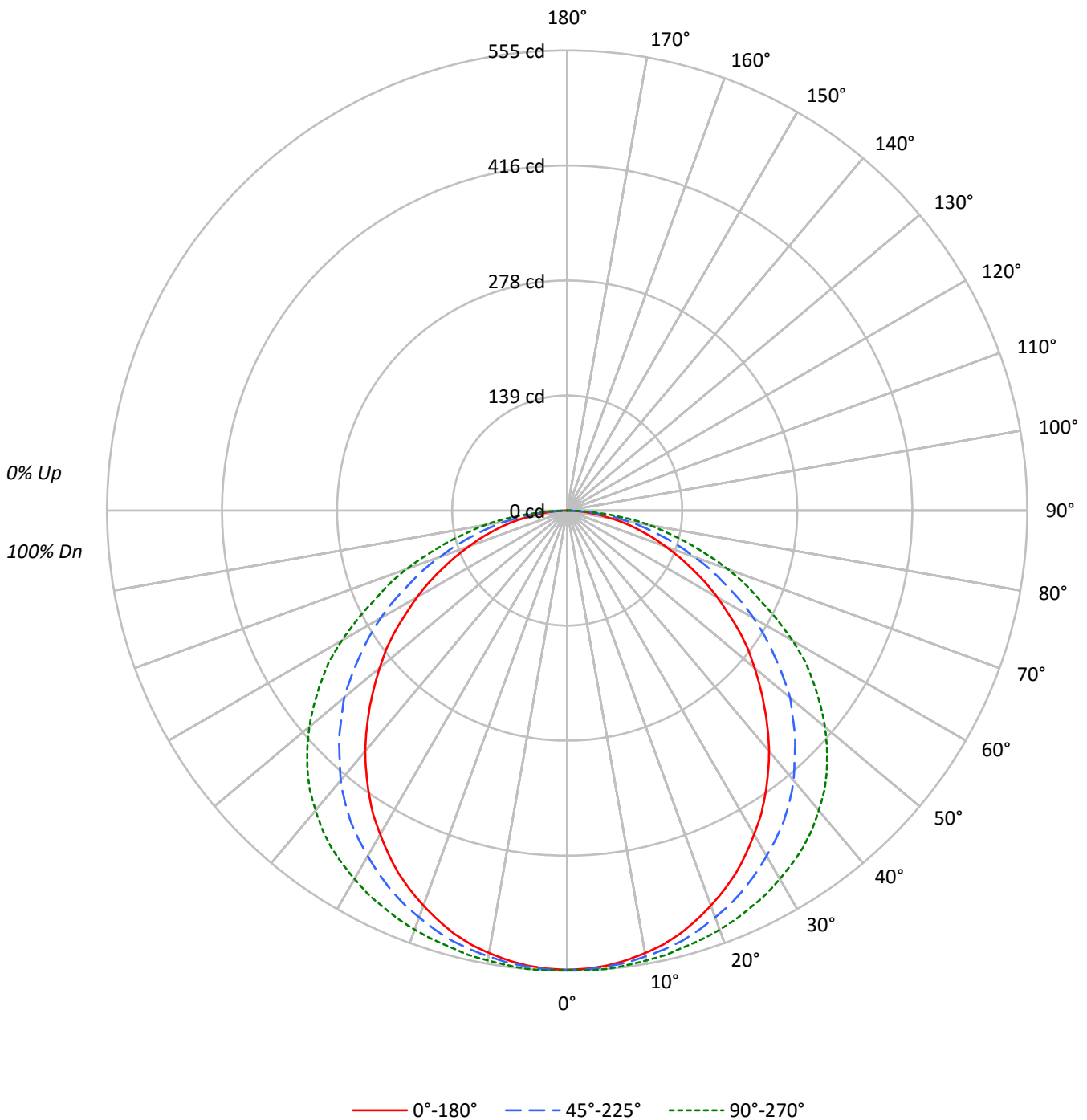
Input Watts (W): 28.2
Input Voltage (V): 120.05
Input Current (Ain): 2352
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P31389

CATALOG NUMBER: E3-WL-1T5-1C-UNV-22-T1

Luminous Intensity Polar Plot





TEST NUMBER: P31389

CATALOG NUMBER: E3-WL-1T5-1C-UNV-22-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	114	114	114	114	111	111	111	111	106	106	106	102	102	102	97	97	97	95
1	103	99	94	91	101	97	93	89	92	89	86	89	86	84	85	83	81	79
2	94	86	79	73	91	84	78	73	81	75	71	77	73	69	74	71	68	66
3	85	75	67	61	83	74	66	60	71	64	59	68	63	58	66	61	57	55
4	78	66	58	51	76	65	57	51	63	56	50	60	54	49	58	53	49	47
5	72	59	50	44	70	58	50	44	56	49	43	54	48	43	52	47	42	40
6	66	53	44	38	64	52	44	38	51	43	38	49	42	37	47	42	37	35
7	61	48	40	34	60	47	39	34	46	39	33	44	38	33	43	37	33	31
8	57	44	36	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
9	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25
10	50	37	29	24	49	37	29	24	36	29	24	35	28	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1902	1902	1902
5°	1899	1902	1912
10°	1889	1903	1921
15°	1876	1908	1937
20°	1852	1907	1965
25°	1826	1909	1996
30°	1788	1906	2033
35°	1747	1911	2078
40°	1698	1904	2115
45°	1636	1888	2150
50°	1575	1874	2168
55°	1514	1825	2172
60°	1435	1785	2156
65°	1348	1706	2087
70°	1265	1636	2067
75°	1180	1565	2003
80°	1048	1483	1996
85°	906	1339	1733



TEST NUMBER: P31389

CATALOG NUMBER: E3-WL-1T5-1C-UNV-22-T1

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	52.5	3.1	3.0
10°-20°	151.5	9.1	8.7
20°-30°	232.5	13.9	13.3
30°-40°	285.2	17.1	16.3
40°-50°	300.3	18.0	17.2
50°-60°	274.2	16.4	15.7
60°-70°	210.0	12.6	12.0
70°-80°	126.0	7.5	7.2
80°-90°	37.9	2.3	2.2
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°	436.6	26.1	24.9
0°-40°	721.7	43.2	41.2
0°-60°	1296.2	77.6	74.1
0°-90°	1670.1	100.0	95.4
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°	1670.1	100.0	95.4

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	554	554	554	554	554	
5°	551	551	552	554	555	52
15°	528	530	537	543	545	149
25°	482	488	504	520	527	222
35°	417	428	456	483	496	261
45°	337	353	389	427	443	260
55°	253	268	305	347	363	226
65°	166	178	210	245	257	165
75°	89	96	118	141	151	95
85°	23	26	34	42	44	27
90°	0	0	0	0	0	



TEST NUMBER: P31389

CATALOG NUMBER: E3-WL-1T5-1C-UNV-22-T1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	554	554	554	554	554
2.5°	553	553	554	555	555
5°	551	551	552	554	555
7.5°	547	548	550	552	553
10°	542	544	546	550	551
12.5°	536	537	542	547	549
15°	528	530	537	543	545
17.5°	518	521	530	538	542
20°	507	512	522	533	538
22.5°	495	500	514	527	533
25°	482	488	504	520	527
27.5°	467	475	493	513	521
30°	451	461	481	504	513
32.5°	435	444	469	495	505
35°	417	428	456	483	496
37.5°	398	410	441	472	485
40°	379	392	425	459	472
42.5°	358	371	406	444	459
45°	337	353	389	427	443
47.5°	316	330	369	410	425
50°	295	311	351	391	406
52.5°	275	290	328	369	385
55°	253	268	305	347	363
57.5°	230	246	283	322	341
60°	209	222	260	298	314
62.5°	188	201	236	271	286
65°	166	178	210	245	257
67.5°	146	158	188	219	233
70°	126	137	163	193	206
72.5°	108	115	141	167	177
75°	89	96	118	141	151
77.5°	72	78	96	117	124
80°	53	59	75	92	101
82.5°	38	43	54	68	74
85°	23	26	34	42	44
87.5°	11	11	12	13	15
90°	0	0	0	0	0

(END OF REPORT)