

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: P31382

Luminaire Tested: **E3-WL-1T5-1C-UNV-24-T1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P31382
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-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: (1) BIPIN T5 DOUBLE ENDED LINEAR FLUORESCENT LAMP 3500K FP54/850C/HO/ECO 54W
Ballast/Driver: (1) SYLVANIA ELECTRONIC BALLAST QHE2X54T5HO/UNV PSN

Summary

Lumens per Lamp: 5000 (1 lamp)
Luminaire Lumens: 4472.5 lumens
Efficiency: 89.4%
Efficacy: 73.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.4 / 1.44
Luminous Opening: Rectangular (W 1.77' x L: 3.69' x H: 0')
CIE Type: Direct

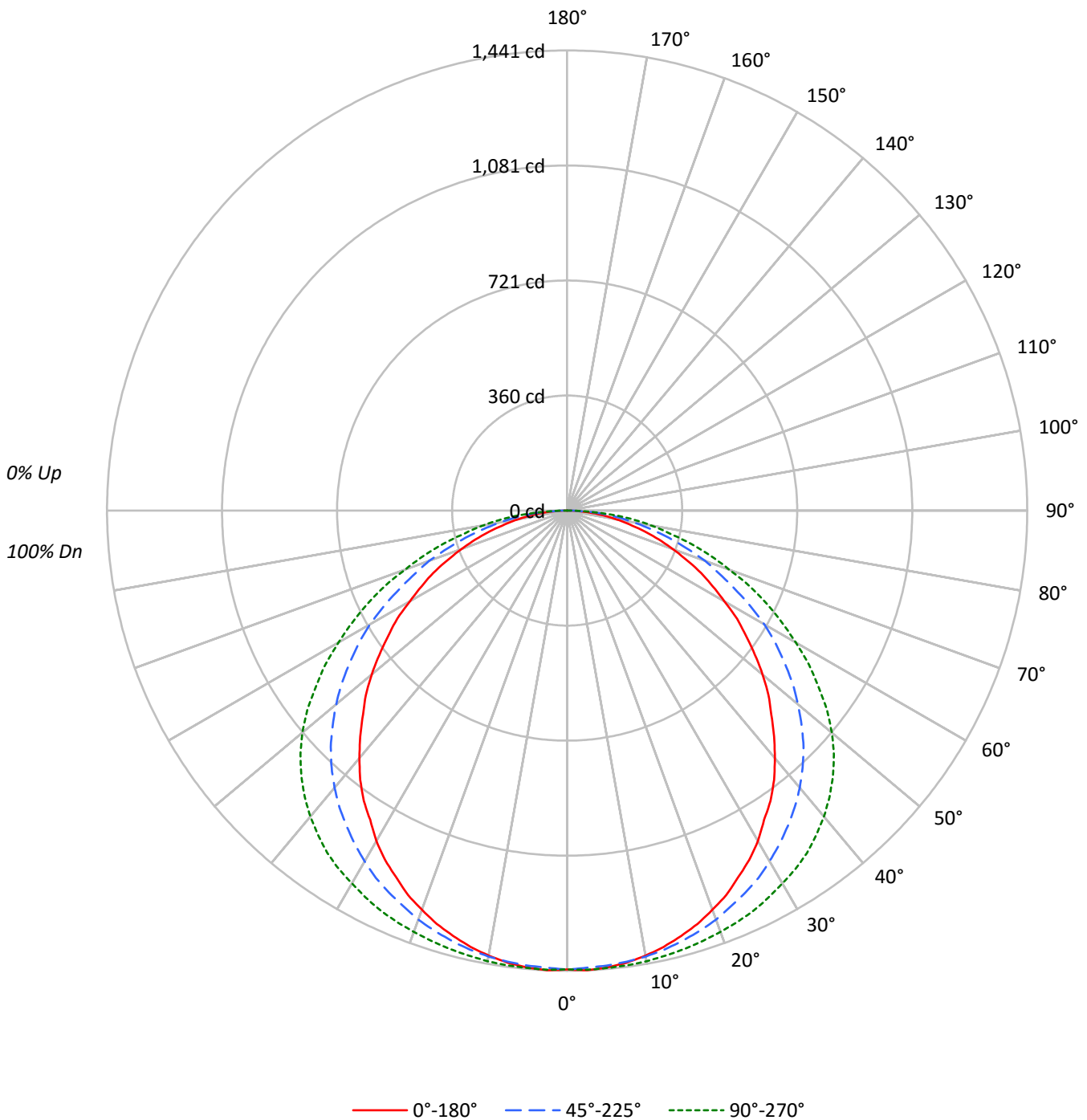
Input Watts (W): 61
Input Voltage (V): 120.02
Input Current (A_{in}): 0.51061
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	106	106	106	104	104	104	104	99	99	99	95	95	95	91	91	91	89
1	97	92	88	85	94	90	87	83	86	83	81	83	80	78	80	78	76	74
2	88	80	74	68	85	78	73	68	75	70	66	72	68	64	69	66	63	61
3	80	70	62	56	77	69	62	56	66	60	55	63	58	54	61	57	53	51
4	73	62	54	48	71	61	53	47	58	52	47	56	51	46	54	49	45	43
5	67	55	47	41	65	54	46	40	52	45	40	50	44	40	49	43	39	37
6	62	49	41	35	60	49	41	35	47	40	35	45	39	35	44	39	34	32
7	57	45	37	31	56	44	36	31	43	36	31	41	35	31	40	35	30	28
8	53	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25
9	50	37	30	25	48	37	30	25	36	29	25	35	29	24	34	28	24	23
10	46	34	27	22	45	34	27	22	33	27	22	32	26	22	31	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2369	2369	2369
5°	2376	2366	2379
10°	2368	2373	2399
15°	2353	2381	2425
20°	2333	2391	2463
25°	2304	2401	2514
30°	2275	2414	2566
35°	2234	2425	2634
40°	2178	2438	2692
45°	2107	2441	2744
50°	2049	2421	2775
55°	1966	2388	2759
60°	1876	2351	2726
65°	1806	2254	2687
70°	1696	2212	2603
75°	1599	2102	2554
80°	1481	2003	2535
85°	1362	2005	2553



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	136.5	3.1	2.7
10°-20°	395.1	8.8	7.9
20°-30°	610.4	13.6	12.2
30°-40°	755.3	16.9	15.1
40°-50°	804.7	18.0	16.1
50°-60°	739.5	16.5	14.8
60°-70°	571.9	12.8	11.4
70°-80°	346.1	7.7	6.9
80°-90°	113.0	2.5	2.3
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°	1142.0	25.5	22.8
0°-40°	1897.3	42.4	37.9
0°-60°	3441.4	76.9	68.8
0°-90°	4472.5	100.0	89.4
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°	4472.5	100.0	89.4

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1437	1437	1437	1437	1437	
5°	1436	1434	1430	1437	1438	136
15°	1379	1385	1395	1414	1421	389
25°	1267	1284	1320	1365	1382	584
35°	1110	1134	1205	1280	1309	693
45°	904	946	1047	1141	1177	699
55°	684	727	831	928	960	613
65°	463	495	578	659	689	456
75°	251	272	330	377	401	265
85°	72	80	106	128	135	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1437	1437	1437	1437	1437
2.5°	1441	1438	1433	1438	1439
5°	1436	1434	1430	1437	1438
7.5°	1428	1427	1425	1434	1436
10°	1415	1416	1418	1429	1433
12.5°	1399	1402	1408	1423	1427
15°	1379	1385	1395	1414	1421
17.5°	1357	1364	1380	1405	1413
20°	1330	1339	1363	1393	1404
22.5°	1303	1313	1341	1380	1394
25°	1267	1284	1320	1365	1382
27.5°	1234	1250	1297	1349	1366
30°	1195	1213	1268	1327	1348
32.5°	1148	1178	1238	1306	1331
35°	1110	1134	1205	1280	1309
37.5°	1064	1093	1171	1250	1281
40°	1012	1045	1133	1218	1251
42.5°	959	1000	1092	1181	1216
45°	904	946	1047	1141	1177
47.5°	855	898	996	1095	1133
50°	799	840	944	1043	1082
52.5°	741	784	890	990	1026
55°	684	727	831	928	960
57.5°	631	669	774	865	898
60°	569	613	713	800	827
62.5°	514	554	646	732	758
65°	463	495	578	659	689
67.5°	405	439	515	589	618
70°	352	382	459	518	540
72.5°	301	326	391	448	471
75°	251	272	330	377	401
77.5°	199	219	268	318	327
80°	156	170	211	251	267
82.5°	113	124	160	191	205
85°	72	80	106	128	135
87.5°	34	41	49	53	57
90°	0	0	0	0	0

(END OF REPORT)