

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: P31387

Luminaire Tested: **E3-WL-3N5-1C-UNV-24-T1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P31387  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: E3-WL-3N5-1C-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. SOCKET SPACING 2.5"  
Light Source: (3) BIPIN T5 DOUBLE ENDED LINEAR FLUORESCENT LAMP 3500K F28W/T5/835/ECO  
Ballast/Driver: (1) GE ELECTRONIC BALLAST (1) UNIVERSAL ELECTRONIC BALLAST GE228MVPS-D,B228PUNV-C

**Summary**

Lumens per Lamp: 2900 (3 lamps)  
Luminaire Lumens: 7042.6 lumens  
Efficiency: 80.9%  
Efficacy: 75.2 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.38 / 1.42  
Luminous Opening: Rectangular (W 1.77' x L: 3.69' x H: 0')  
CIE Type: Direct

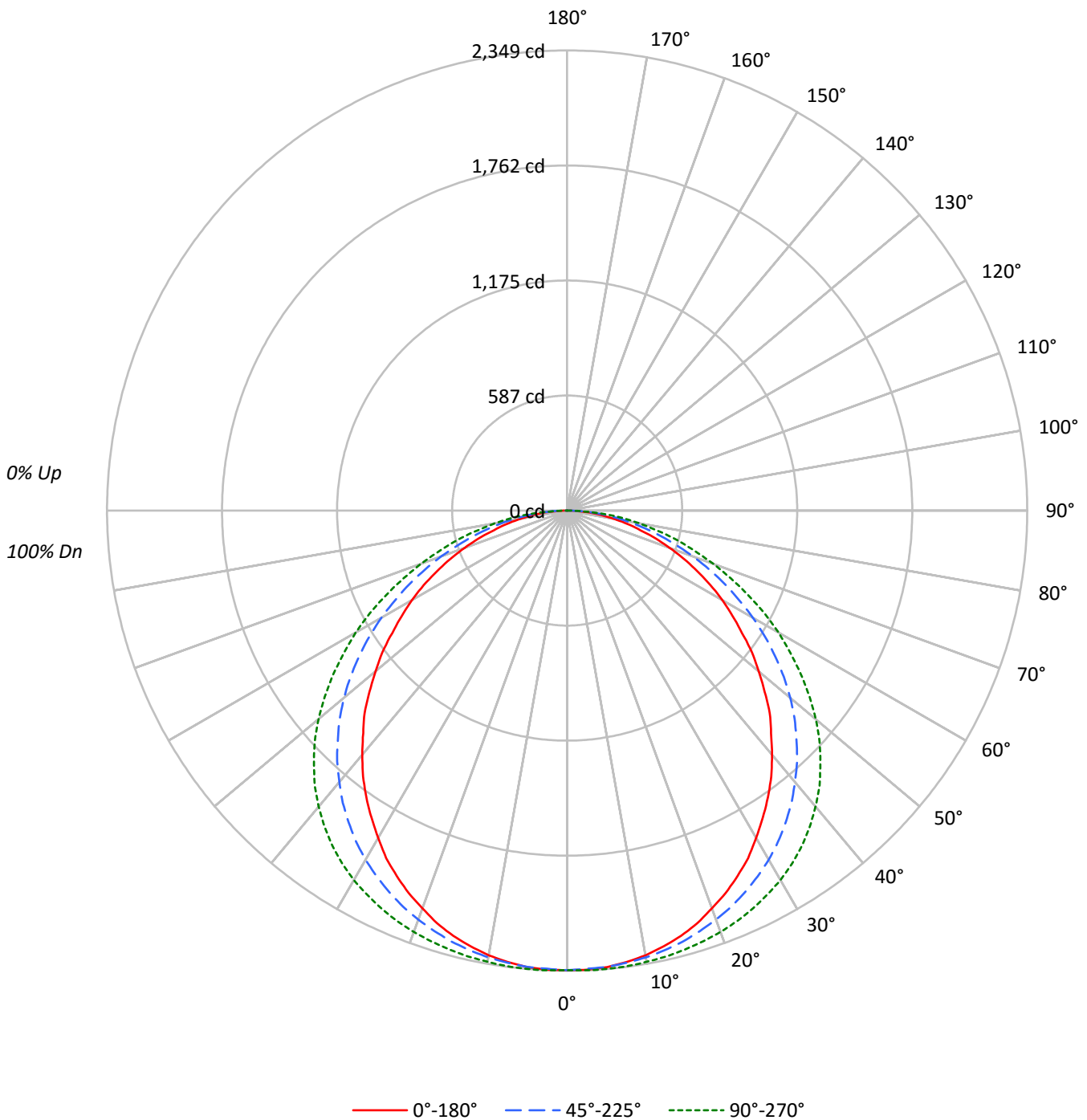
Input Watts (W): 93.7  
Input Voltage (V): 120.03  
Input Current (A<sub>in</sub>): 0.7820  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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									70									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	96	96	96	96	94	94	94	94	90	90	90	86	86	86	83	83	83	81						81														
1	88	84	80	77	86	82	79	76	79	76	73	75	73	71	72	71	69	67						67														
2	80	73	67	62	78	71	66	62	68	64	60	66	62	59	63	60	58	56						56														
3	73	64	57	52	70	63	56	51	60	55	50	58	53	49	56	52	49	47						47														
4	66	56	49	44	64	55	49	43	53	47	43	51	46	42	50	45	42	40						40														
5	61	50	43	38	59	49	42	37	48	42	37	46	41	36	45	40	36	34						34														
6	56	45	38	33	55	44	38	33	43	37	32	42	36	32	40	35	32	30						30														
7	52	41	34	29	51	40	34	29	39	33	28	38	32	28	37	32	28	26						26														
8	48	37	30	26	47	37	30	26	36	30	25	35	29	25	34	29	25	23						23														
9	45	34	28	23	44	34	27	23	33	27	23	32	27	23	31	26	23	21						21														
10	42	32	25	21	41	31	25	21	30	25	21	30	24	21	29	24	20	19						19														

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

	0°	45°	90°
0°	3867	3867	3867
5°	3870	3869	3887
10°	3858	3877	3915
15°	3835	3888	3959
20°	3789	3898	4015
25°	3743	3909	4078
30°	3672	3917	4146
35°	3596	3912	4204
40°	3501	3893	4246
45°	3411	3860	4261
50°	3272	3813	4249
55°	3133	3725	4187
60°	3020	3613	4111
65°	2859	3464	3971
70°	2680	3297	3817
75°	2471	3102	3688
80°	2307	2933	3541
85°	2137	2818	3253



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	222.8	3.2	2.6
10°-20°	644.2	9.1	7.4
20°-30°	991.6	14.1	11.4
30°-40°	1214.7	17.2	14.0
40°-50°	1272.5	18.1	14.6
50°-60°	1149.3	16.3	13.2
60°-70°	872.8	12.4	10.0
70°-80°	514.6	7.3	5.9
80°-90°	160.1	2.3	1.8
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°	1858.6	26.4	21.4
0°-40°	3073.3	43.6	35.3
0°-60°	5495.0	78.0	63.2
0°-90°	7042.6	100.0	80.9
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°	7042.6	100.0	80.9

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2346	2346	2346	2346	2346	
5°	2339	2339	2338	2345	2349	222
15°	2247	2254	2278	2307	2320	633
25°	2058	2087	2149	2215	2242	948
35°	1787	1839	1944	2050	2089	1117
45°	1463	1523	1656	1780	1828	1124
55°	1090	1156	1296	1414	1457	979
65°	733	777	888	985	1018	728
75°	388	421	487	548	579	416
85°	113	119	149	171	172	125
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2346	2346	2346	2346	2346
2.5°	2346	2347	2341	2347	2349
5°	2339	2339	2338	2345	2349
7.5°	2324	2326	2328	2341	2346
10°	2305	2308	2316	2332	2339
12.5°	2278	2285	2299	2322	2332
15°	2247	2254	2278	2307	2320
17.5°	2209	2221	2251	2290	2306
20°	2160	2182	2222	2270	2289
22.5°	2114	2136	2189	2246	2268
25°	2058	2087	2149	2215	2242
27.5°	2000	2034	2105	2184	2211
30°	1929	1972	2058	2146	2178
32.5°	1859	1905	2004	2102	2137
35°	1787	1839	1944	2050	2089
37.5°	1711	1764	1881	1991	2034
40°	1627	1688	1809	1927	1973
42.5°	1541	1605	1738	1860	1907
45°	1463	1523	1656	1780	1828
47.5°	1368	1433	1575	1697	1748
50°	1276	1346	1487	1610	1657
52.5°	1190	1252	1394	1515	1559
55°	1090	1156	1296	1414	1457
57.5°	1001	1065	1197	1312	1350
60°	916	969	1096	1206	1247
62.5°	825	878	990	1092	1136
65°	733	777	888	985	1018
67.5°	647	684	784	868	903
70°	556	595	684	762	792
72.5°	475	504	581	652	681
75°	388	421	487	548	579
77.5°	315	339	395	450	471
80°	243	261	309	353	373
82.5°	174	185	227	266	281
85°	113	119	149	171	172
87.5°	52	59	67	66	68
90°	0	0	0	0	0

(END OF REPORT)