

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: P31391

Luminaire Tested: **E3-WL-3N5-1C-UNV-22-T1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P31391
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-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. SOCKET SPACING 2.5 INCHES.
Light Source: (3) BIPIN T5 DOUBLE ENDED LINEAR FLUORESCENT LAMP 3500K F14W/T5/835/ECO 14 WATTS
Ballast/Driver: (1) GE ELECTRONIC BALLAST, (1) ULT ELECTRONIC BALLAST GE228MVPSH-A, B228PUNV-C

Summary

Lumens per Lamp: 1350 (3 lamps)
Luminaire Lumens: 3047.6 lumens
Efficiency: 75.3%
Efficacy: 57.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.35 / 1.39
Luminous Opening: Rectangular (W 1.77' x L: 1.77' x H: 0')
CIE Type: Direct

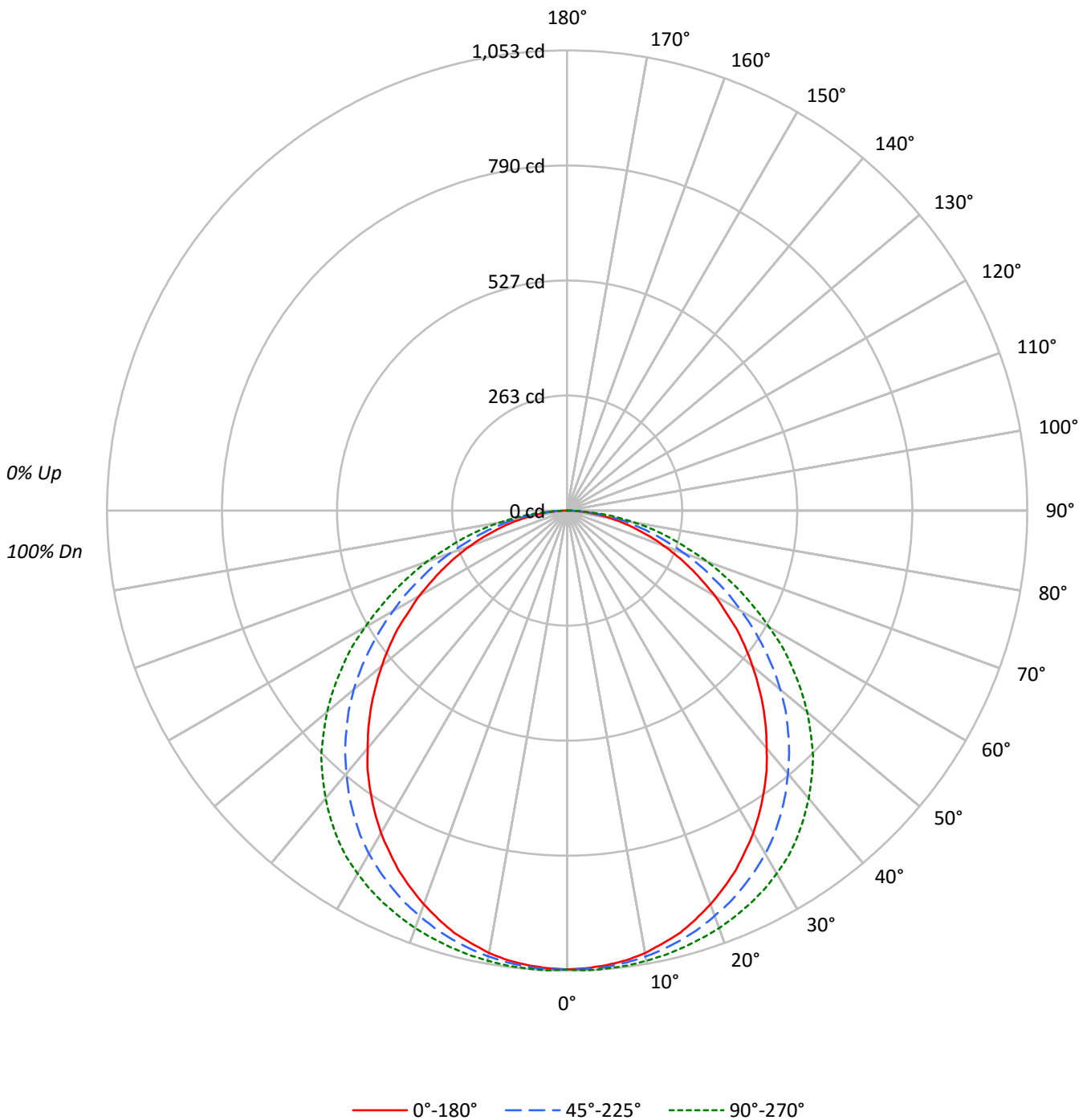
Input Watts (W): 52.9
Input Voltage (V): 120.05
Input Current (A_{in}): 0.44131
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	90	90	90	90	88	88	88	88	84	84	84	80	80	80	77	77	77	75						75														
1	82	78	75	72	80	76	73	71	73	71	68	70	68	66	68	66	64	63						63														
2	74	68	63	58	72	67	62	58	64	60	56	61	58	55	59	56	54	52						52														
3	68	60	53	49	66	58	53	48	56	51	47	54	50	46	52	49	46	44						44														
4	62	53	46	41	60	52	46	41	50	44	40	48	43	40	46	42	39	37						37														
5	57	47	40	35	55	46	40	35	45	39	35	43	38	34	42	37	34	32						32														
6	53	42	36	31	51	42	35	31	40	35	30	39	34	30	38	33	30	28						28														
7	49	38	32	27	47	38	32	27	37	31	27	36	30	27	35	30	26	25						25														
8	45	35	29	24	44	35	28	24	34	28	24	33	28	24	32	27	24	22						22														
9	42	32	26	22	41	32	26	22	31	25	22	30	25	21	29	25	21	20						20														
10	40	30	24	20	39	29	24	20	29	23	20	28	23	19	27	23	19	18						18														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3604	3604	3604
5°	3597	3611	3625
10°	3583	3611	3646
15°	3554	3610	3674
20°	3503	3605	3715
25°	3447	3602	3757
30°	3377	3595	3801
35°	3289	3566	3838
40°	3181	3522	3854
45°	3078	3471	3864
50°	2958	3402	3829
55°	2837	3291	3770
60°	2684	3158	3666
65°	2526	3013	3557
70°	2358	2850	3422
75°	2175	2679	3263
80°	1977	2510	3064
85°	1733	2127	2599



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	99.7	3.3	2.5
10°-20°	287.0	9.4	7.1
20°-30°	438.4	14.4	10.8
30°-40°	532.0	17.5	13.1
40°-50°	551.1	18.1	13.6
50°-60°	492.3	16.2	12.2
60°-70°	369.6	12.1	9.1
70°-80°	215.3	7.1	5.3
80°-90°	62.3	2.0	1.5
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°	825.1	27.1	20.4
0°-40°	1357.1	44.5	33.5
0°-60°	2400.4	78.8	59.3
0°-90°	3047.6	100.0	75.3
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°	3047.6	100.0	75.3

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1050	1050	1050	1050	1050	
5°	1044	1045	1048	1050	1052	99
15°	1000	1005	1016	1029	1034	282
25°	910	922	951	980	992	419
35°	785	805	851	897	916	491
45°	634	660	715	771	796	489
55°	474	496	550	609	630	422
65°	311	329	371	419	438	308
75°	164	174	202	232	246	175
85°	44	47	54	62	66	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1050	1050	1050	1050	1050
2.5°	1048	1048	1050	1052	1053
5°	1044	1045	1048	1050	1052
7.5°	1038	1039	1043	1047	1050
10°	1028	1031	1036	1043	1046
12.5°	1014	1019	1027	1037	1041
15°	1000	1005	1016	1029	1034
17.5°	980	987	1003	1019	1026
20°	959	969	987	1007	1017
22.5°	935	947	971	995	1005
25°	910	922	951	980	992
27.5°	881	898	930	962	977
30°	852	869	907	943	959
32.5°	819	837	881	922	940
35°	785	805	851	897	916
37.5°	750	771	820	869	889
40°	710	735	786	838	860
42.5°	673	697	752	808	828
45°	634	660	715	771	796
47.5°	594	619	678	734	756
50°	554	579	637	694	717
52.5°	514	535	595	650	675
55°	474	496	550	609	630
57.5°	429	452	506	563	586
60°	391	409	460	514	534
62.5°	349	369	417	467	485
65°	311	329	371	419	438
67.5°	273	287	329	369	388
70°	235	249	284	325	341
72.5°	200	209	241	274	289
75°	164	174	202	232	246
77.5°	132	139	162	189	202
80°	100	107	127	147	155
82.5°	71	76	89	108	113
85°	44	47	54	62	66
87.5°	17	20	19	22	19
90°	0	0	0	0	0

(END OF REPORT)