

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: P31386

Luminaire Tested: **E3-WL-3T8-1C-UNV-24-T1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P31386
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E3-WL-3T8-1C-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 T8 DOUBLE ENDED LINEAR FLUORESCENT LAMP 3500K F32T8-XL-SPX41-HL-ECO 32 WATTS
Ballast/Driver: (2) GE ELECTRONIC BALLAST GE232MAX-N-ULTRA

Summary

Lumens per Lamp: 2800 (3 lamps)
Luminaire Lumens: 6932.6 lumens
Efficiency: 82.5%
Efficacy: 88.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.41
Luminous Opening: Rectangular (W 1.77' x L: 3.69' x H: 0')
CIE Type: Direct

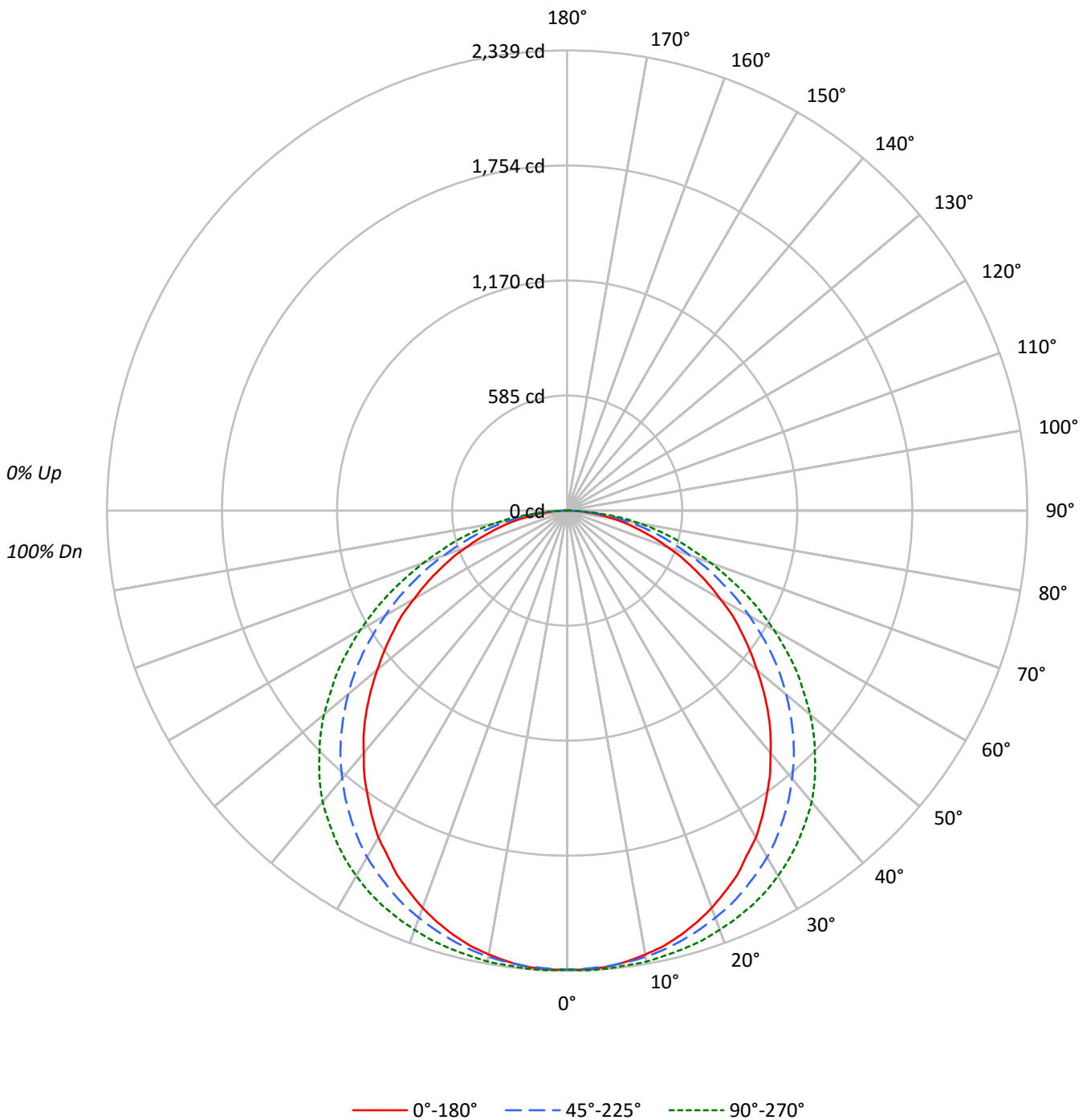
Input Watts (W): 78.3
Input Voltage (V): 120.06
Input Current (A_{in}): 0.6535
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	98	98	98	96	96	96	96	92	92	92	88	88	88	84	84	84	83																				
1	90	85	82	79	87	84	80	77	80	77	75	77	75	73	74	72	70	69																				
2	81	74	69	64	79	73	67	63	70	65	61	67	63	60	65	61	59	57																				
3	74	65	58	53	72	64	57	52	61	56	51	59	54	50	57	53	50	48																				
4	68	58	50	45	66	57	50	44	54	48	44	52	47	43	51	46	42	41																				
5	62	51	44	38	60	50	43	38	49	42	38	47	42	37	46	41	37	35																				
6	57	46	39	33	56	45	38	33	44	38	33	43	37	33	41	36	32	31																				
7	53	42	35	29	52	41	34	29	40	34	29	39	33	29	38	33	29	27																				
8	49	38	31	26	48	38	31	26	37	30	26	35	30	26	34	29	26	24																				
9	46	35	28	24	45	35	28	23	34	28	23	33	27	23	32	27	23	22																				
10	43	32	26	21	42	32	26	21	31	25	21	30	25	21	30	25	21	20																				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3847	3847	3847
5°	3852	3847	3867
10°	3835	3855	3897
15°	3811	3858	3932
20°	3770	3864	3978
25°	3719	3869	4032
30°	3653	3872	4081
35°	3560	3854	4123
40°	3462	3826	4162
45°	3364	3790	4154
50°	3231	3729	4139
55°	3112	3647	4095
60°	2967	3521	4002
65°	2812	3378	3893
70°	2622	3215	3750
75°	2446	3070	3662
80°	2240	2895	3560
85°	1986	2686	2837



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	221.7	3.2	2.6
10°-20°	640.0	9.2	7.6
20°-30°	981.5	14.2	11.7
30°-40°	1196.9	17.3	14.2
40°-50°	1248.7	18.0	14.9
50°-60°	1125.5	16.2	13.4
60°-70°	855.7	12.3	10.2
70°-80°	509.3	7.3	6.1
80°-90°	153.3	2.2	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°	1843.1	26.6	21.9
0°-40°	3040.0	43.9	36.2
0°-60°	5414.3	78.1	64.5
0°-90°	6932.6	100.0	82.5
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°	6932.6	100.0	82.5

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2334	2334	2334	2334	2334	
5°	2328	2330	2325	2334	2337	221
15°	2233	2243	2261	2294	2304	630
25°	2045	2070	2127	2191	2217	940
35°	1769	1817	1915	2013	2049	1107
45°	1443	1502	1626	1740	1782	1111
55°	1083	1140	1269	1378	1425	969
65°	721	769	866	958	998	715
75°	384	413	482	548	575	408
85°	105	118	142	152	150	120
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2334	2334	2334	2334	2334
2.5°	2334	2333	2330	2337	2339
5°	2328	2330	2325	2334	2337
7.5°	2312	2316	2316	2329	2331
10°	2291	2297	2303	2318	2328
12.5°	2267	2273	2285	2307	2316
15°	2233	2243	2261	2294	2304
17.5°	2194	2204	2234	2273	2290
20°	2149	2165	2203	2251	2268
22.5°	2097	2117	2170	2220	2244
25°	2045	2070	2127	2191	2217
27.5°	1977	2014	2082	2157	2184
30°	1919	1950	2034	2116	2144
32.5°	1845	1886	1978	2065	2100
35°	1769	1817	1915	2013	2049
37.5°	1693	1745	1850	1955	1992
40°	1609	1662	1778	1889	1934
42.5°	1530	1582	1706	1821	1863
45°	1443	1502	1626	1740	1782
47.5°	1352	1416	1540	1658	1702
50°	1260	1326	1454	1570	1614
52.5°	1171	1234	1364	1477	1515
55°	1083	1140	1269	1378	1425
57.5°	999	1052	1167	1273	1319
60°	900	953	1068	1178	1214
62.5°	811	859	971	1070	1107
65°	721	769	866	958	998
67.5°	637	677	771	856	882
70°	544	584	667	749	778
72.5°	462	501	572	648	668
75°	384	413	482	548	575
77.5°	312	333	393	452	476
80°	236	256	305	358	375
82.5°	171	185	228	261	273
85°	105	118	142	152	150
87.5°	47	53	56	50	49
90°	0	0	0	0	0

(END OF REPORT)