

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: P30898

Luminaire Tested: **Z3-WN-3T8-1C-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P30898
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WN-3T8-1C-UNV-24
Description: CORELITE 2x4 SHALLOW RECESSED FIXTURE WITH A WHITE UPPER REFLECTOR AND A CLEAR FLAT LENS WITH A FROST INLAY OVER LAMP MOUNTING & TWO MICRO ACRYLIC LENS OVER CURVED REFLECTORS---RELATIVE PHOTOMETRY IS BASED ON RELATIONAL FACTORS CREATED USING MANUFACTURERS PUBLISHED DATA AND A BARE LAMP SUM FOR THE LAMP UNDER TEST IN GONIOPHOTOMETER WITH TEST DISTANCE OF 24.0 FT
Light Source: (3) GE T8 LINEAR FLUORESCENT LAMPS 5000K
GE F32T8-SPX50-ECO 32 WATTS
Ballast/Driver: GE ELECTRONIC BALLAST
(2) B-GE-232-MV-N

Summary

Lumens per Lamp: 3100 (3 lamps)
Luminaire Lumens: 6847.7 lumens
Efficiency: 73.6%
Efficacy: 79.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.36 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

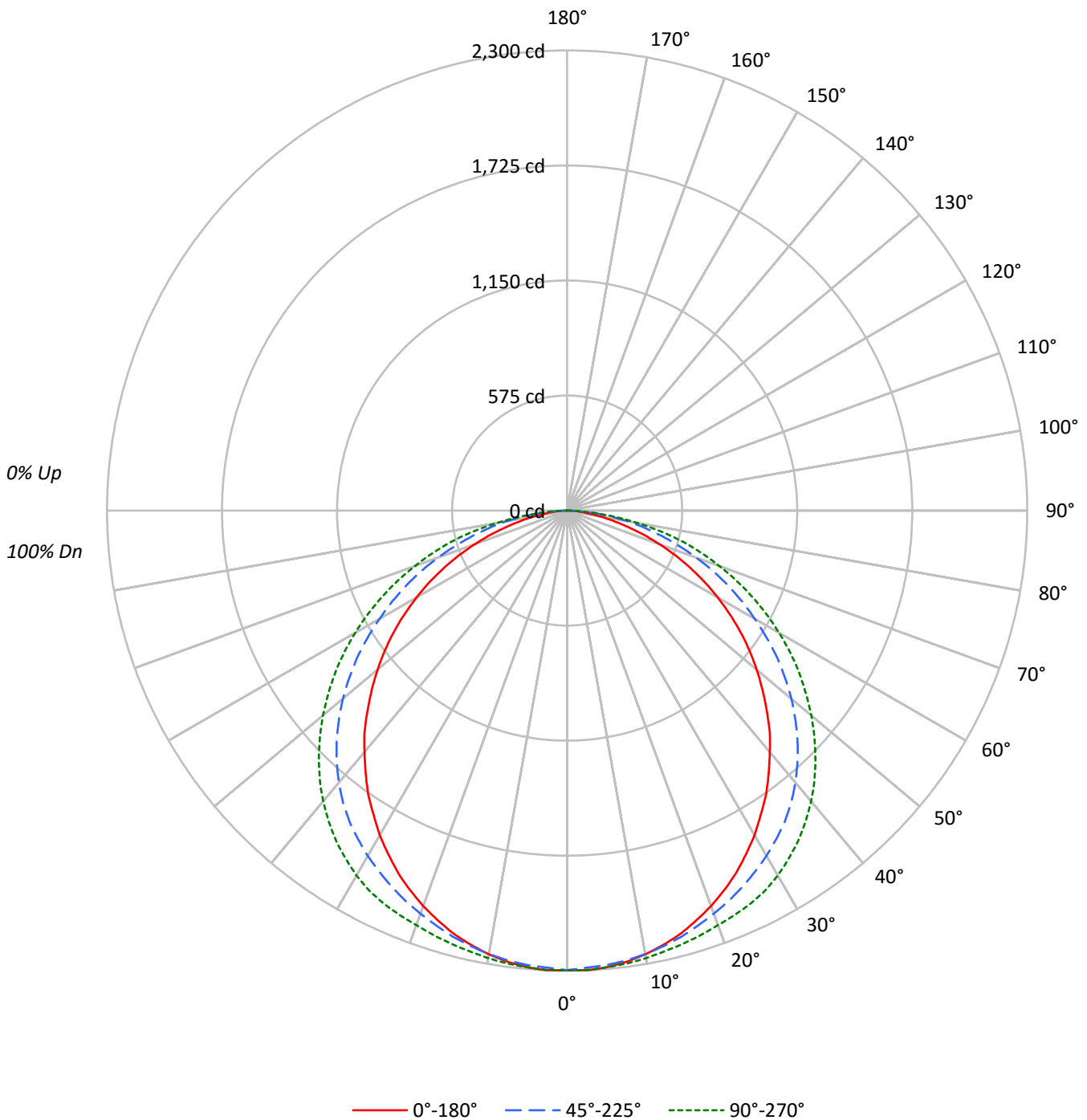
Input Watts (W): 85.9
Input Voltage (V): 120.06
Input Current (Ain): 0.7166
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 25 HR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	88	88	88	88	86	86	86	86	82	82	82		78	78	78		75	75	75	74
1	80	76	73	70	78	75	72	69	71	69	67		69	67	65		66	64	63	61
2	73	66	61	57	71	65	60	56	62	58	55		60	57	54		58	55	52	51
3	66	58	52	47	64	57	51	47	55	50	46		53	48	45		51	47	44	43
4	60	51	45	40	59	50	44	39	48	43	39		47	42	38		45	41	38	36
5	55	46	39	34	54	45	39	34	43	38	34		42	37	33		41	36	33	31
6	51	41	34	30	50	40	34	30	39	33	29		38	33	29		37	32	29	27
7	47	37	31	26	46	37	30	26	36	30	26		34	29	26		33	29	25	24
8	44	34	28	23	43	33	27	23	32	27	23		32	27	23		31	26	23	21
9	41	31	25	21	40	31	25	21	30	24	21		29	24	21		28	24	20	19
10	39	29	23	19	38	28	23	19	28	22	19		27	22	19		26	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3091	3091	3091
5°	3094	3079	3094
10°	3077	3075	3103
15°	3051	3071	3122
20°	3011	3070	3157
25°	2968	3081	3219
30°	2910	3096	3272
35°	2847	3116	3308
40°	2768	3116	3332
45°	2683	3100	3339
50°	2587	3062	3334
55°	2482	3005	3324
60°	2338	2914	3294
65°	2162	2827	3251
70°	1932	2699	3186
75°	1627	2537	3098
80°	1271	2379	2758
85°	942	1991	2100



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	217.4	3.2	2.3
10°-20°	624.6	9.1	6.7
20°-30°	959.2	14.0	10.3
30°-40°	1177.8	17.2	12.7
40°-50°	1238.4	18.1	13.3
50°-60°	1127.1	16.5	12.1
60°-70°	861.6	12.6	9.3
70°-80°	502.1	7.3	5.4
80°-90°	138.9	2.0	1.5
90°-100°	0.7	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°	1801.2	26.3	19.4
0°-40°	2979.0	43.5	32.0
0°-60°	5344.5	78.0	57.5
0°-90°	6847.1	100.0	73.6
90°-120°	0.7	0.0	0.0
90°-150°	0.7	0.0	0.0
90°-180°	1.0	0.0	0.0
0°-180°	6847.7	100.0	73.6

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2297	2297	2297	2297	2297	
5°	2291	2288	2280	2289	2291	217
15°	2190	2195	2205	2233	2241	617
25°	1999	2020	2075	2144	2168	920
35°	1733	1780	1897	1985	2014	1082
45°	1410	1490	1629	1722	1755	1088
55°	1058	1155	1281	1380	1417	944
65°	679	764	888	983	1021	673
75°	313	390	488	568	596	335
85°	61	105	129	140	136	71
90°	1	3	6	7	7	4
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2297	2297	2297	2297	2297
2.5°	2300	2298	2287	2296	2298
5°	2291	2288	2280	2289	2291
7.5°	2275	2274	2268	2281	2284
10°	2252	2253	2251	2267	2271
12.5°	2223	2227	2229	2250	2256
15°	2190	2195	2205	2233	2241
17.5°	2148	2157	2175	2212	2224
20°	2103	2116	2144	2189	2205
22.5°	2053	2070	2111	2168	2188
25°	1999	2020	2075	2144	2168
27.5°	1936	1964	2034	2115	2142
30°	1873	1907	1993	2081	2106
32.5°	1802	1844	1946	2034	2062
35°	1733	1780	1897	1985	2014
37.5°	1655	1712	1840	1928	1958
40°	1576	1642	1774	1866	1897
42.5°	1499	1567	1705	1797	1830
45°	1410	1490	1629	1722	1755
47.5°	1324	1412	1548	1643	1676
50°	1236	1332	1463	1559	1593
52.5°	1148	1245	1372	1470	1505
55°	1058	1155	1281	1380	1417
57.5°	963	1059	1183	1284	1322
60°	869	960	1083	1185	1224
62.5°	776	862	986	1085	1124
65°	679	764	888	983	1021
67.5°	587	665	788	879	916
70°	491	570	686	774	810
72.5°	399	476	585	671	703
75°	313	390	488	568	596
77.5°	233	306	396	460	479
80°	164	234	307	347	356
82.5°	106	166	213	241	243
85°	61	105	129	140	136
87.5°	25	45	54	54	52
90°	1	3	6	7	7
92.5°	0	0	0	0	0
95°	0	0	0	0	0
97.5°	0	0	0	0	0
100°	0	0	0	0	0
102.5°	0	0	0	0	0
105°	0	0	0	0	0
107.5°	0	0	0	0	0
110°	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0	0	0	0	0
115°	0	0	0	0	0
117.5°	0	0	0	0	0
120°	0	0	0	0	0
122.5°	0	0	0	0	0
125°	0	0	0	0	0
127.5°	0	0	0	0	0
130°	0	0	0	0	0
132.5°	0	0	0	0	0
135°	0	0	0	0	0
137.5°	0	0	0	0	0
140°	0	0	0	0	0
142.5°	0	0	0	0	0
145°	0	0	0	0	0
147.5°	0	0	0	0	0
150°	0	0	0	0	0
152.5°	0	0	0	0	0
155°	0	0	0	0	0
157.5°	0	0	0	0	0
160°	0	0	0	0	0
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)