

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: P30611

Luminaire Tested: **Z3-WB-2N5-1C-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P30611
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WB-2N5-1C-UNV-24
Description: CORELITE 2X4 SHALLOW RECESSED FIXTURE WITH WHITE UPPER REFLECTOR AND A CLEAR FLAT PRISMATIC LENS INCLUDING A WHITE BAFFLE WITH PRISMS RUNNING HORIZONTAL IN THE CENTER OF LENS OVER LAMP MOUNTING & TWO MICRO ACRYLIC LENS OVER CURVED REFLECTORS
Light Source: (2) GE DOUBLE ENDED BI-PIN T5 FLUORESCENT LAMPS 3500K
GE F28W/T5/835/ECO
Ballast/Driver: GE ELECTRONIC DRIVER
GE228MVPS-D

Summary

Lumens per Lamp: 2900 (2 lamps)
Luminaire Lumens: 5098.1 lumens
Efficiency: 87.9%
Efficacy: 5098.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.47 / 1.45
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

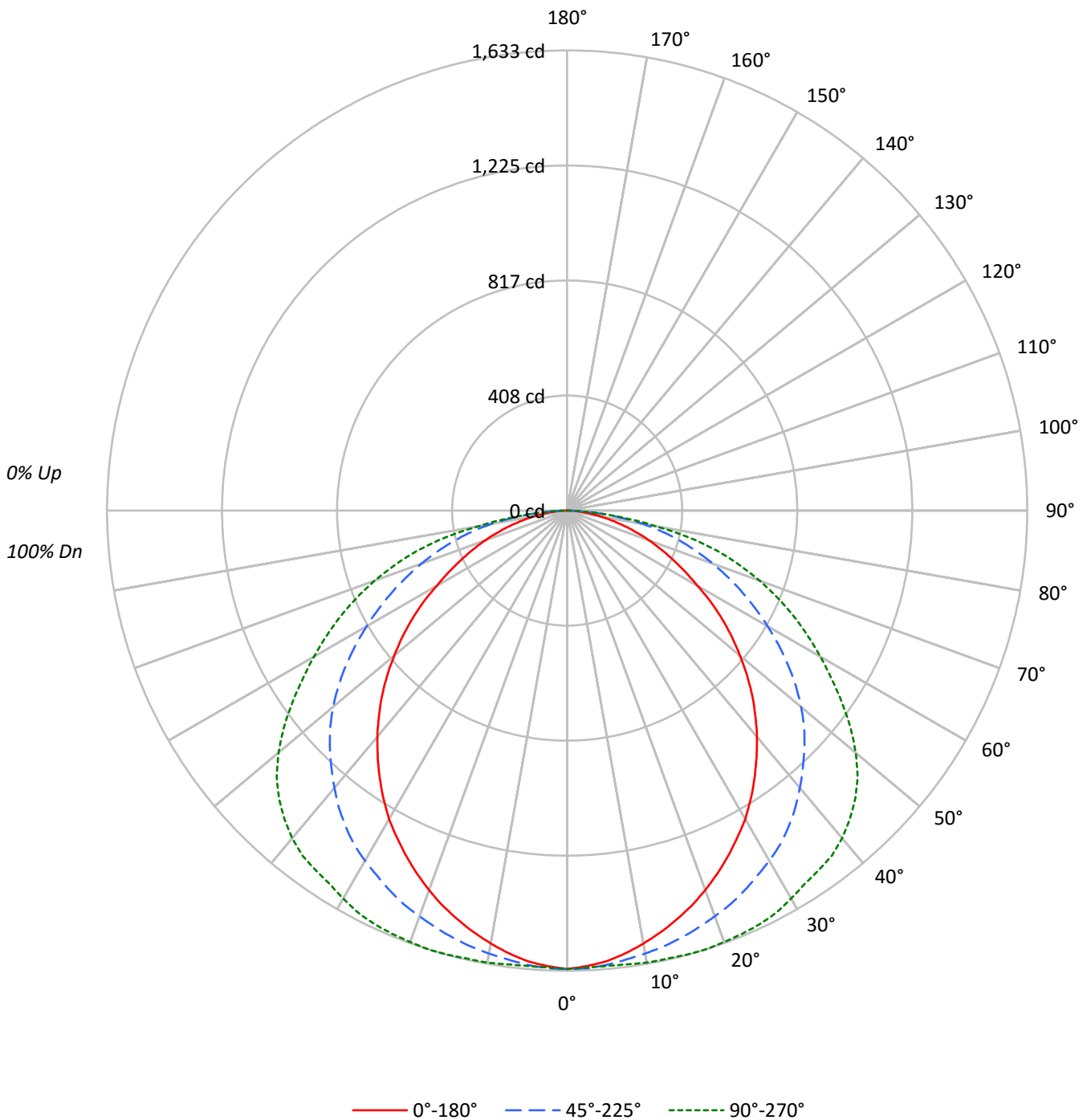
Input Watts (W): 1
Input Voltage (V): 120.06
Input Current (A_{in}): 0.5121
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P30611

CATALOG NUMBER: Z3-WB-2N5-1C-UNV-24

Luminous Intensity Polar Plot





TEST NUMBER: P30611

CATALOG NUMBER: Z3-WB-2N5-1C-UNV-24

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	105	105	105	105	102	102	102	102	98	98	98	94	94	94	90	90	90	88
1	95	91	87	83	93	89	85	82	85	82	79	81	79	77	78	76	74	73
2	86	79	72	67	84	77	71	66	74	69	65	71	67	63	68	65	62	60
3	78	69	61	55	76	67	60	55	65	59	54	62	57	53	60	55	52	50
4	71	61	53	46	69	59	52	46	57	51	45	55	49	45	53	48	44	42
5	66	54	46	40	64	53	45	39	51	44	39	49	43	39	48	42	38	36
6	60	48	40	34	59	48	40	34	46	39	34	44	38	34	43	38	33	32
7	56	44	36	30	54	43	36	30	42	35	30	40	34	30	39	34	29	28
8	52	40	32	27	51	39	32	27	38	31	27	37	31	26	36	30	26	25
9	49	37	29	24	47	36	29	24	35	28	24	34	28	24	33	28	24	22
10	45	34	27	22	44	33	26	22	32	26	22	31	26	22	31	25	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2189	2189	2189
5°	2168	2185	2191
10°	2131	2181	2226
15°	2092	2186	2273
20°	2052	2194	2332
25°	2007	2209	2404
30°	1964	2229	2470
35°	1904	2250	2557
40°	1841	2257	2666
45°	1768	2266	2751
50°	1677	2269	2799
55°	1576	2247	2796
60°	1437	2212	2793
65°	1324	2181	2827
70°	1223	2164	2856
75°	1092	2152	2864
80°	938	2123	2472
85°	772	1729	1775



TEST NUMBER: P30611

CATALOG NUMBER: Z3-WB-2N5-1C-UNV-24

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	153.6	3.0	2.6
10°-20°	443.0	8.7	7.6
20°-30°	685.5	13.4	11.8
30°-40°	852.3	16.7	14.7
40°-50°	916.8	18.0	15.8
50°-60°	846.0	16.6	14.6
60°-70°	664.4	13.0	11.5
70°-80°	417.9	8.2	7.2
80°-90°	118.3	2.3	2.0
90°-100°	0.4	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°	1282.1	25.1	22.1
0°-40°	2134.4	41.9	36.8
0°-60°	3897.1	76.4	67.2
0°-90°	5097.7	100.0	87.9
90°-120°	0.4	0.0	0.0
90°-150°	0.4	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	5098.1	100.0	87.9

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1627	1627	1627	1627	1627	
5°	1605	1608	1618	1623	1622	152
15°	1502	1522	1569	1612	1632	423
25°	1352	1396	1488	1576	1619	623
35°	1159	1226	1370	1488	1557	725
45°	929	1021	1191	1360	1446	715
55°	672	775	958	1124	1192	599
65°	416	511	685	836	888	414
75°	210	281	414	520	551	223
85°	50	87	112	118	115	55
90°	1	3	4	2	3	3
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



TEST NUMBER: P30611

CATALOG NUMBER: Z3-WB-2N5-1C-UNV-24

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1627	1627	1627	1627	1627
2.5°	1618	1621	1626	1626	1623
5°	1605	1608	1618	1623	1622
7.5°	1585	1591	1607	1622	1624
10°	1560	1570	1596	1621	1629
12.5°	1533	1547	1584	1617	1629
15°	1502	1522	1569	1612	1632
17.5°	1470	1494	1551	1607	1633
20°	1433	1464	1532	1597	1629
22.5°	1394	1432	1513	1586	1625
25°	1352	1396	1488	1576	1619
27.5°	1308	1358	1461	1560	1608
30°	1264	1317	1435	1541	1590
32.5°	1213	1273	1406	1513	1570
35°	1159	1226	1370	1488	1557
37.5°	1104	1181	1330	1464	1543
40°	1048	1131	1285	1438	1518
42.5°	989	1076	1238	1402	1485
45°	929	1021	1191	1360	1446
47.5°	866	964	1141	1311	1398
50°	801	903	1084	1256	1337
52.5°	737	840	1023	1193	1268
55°	672	775	958	1124	1192
57.5°	605	708	891	1052	1113
60°	534	642	822	980	1038
62.5°	474	576	753	909	963
65°	416	511	685	836	888
67.5°	361	449	617	760	808
70°	311	390	550	683	726
72.5°	258	335	482	603	640
75°	210	281	414	520	551
77.5°	163	229	345	429	446
80°	121	180	274	316	319
82.5°	83	133	188	212	214
85°	50	87	112	118	115
87.5°	20	38	45	44	42
90°	1	3	4	2	3
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



TEST NUMBER: P30611

CATALOG NUMBER: Z3-WB-2N5-1C-UNV-24

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)