

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: CORELITE

Report Number: P220302

Luminaire Tested: **Z3-WN-3L40-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220302
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35868)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WN-3L40-LD5-UNV-24
Description: CLASS Z3 2X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5134.5 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.37 / 1.44
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

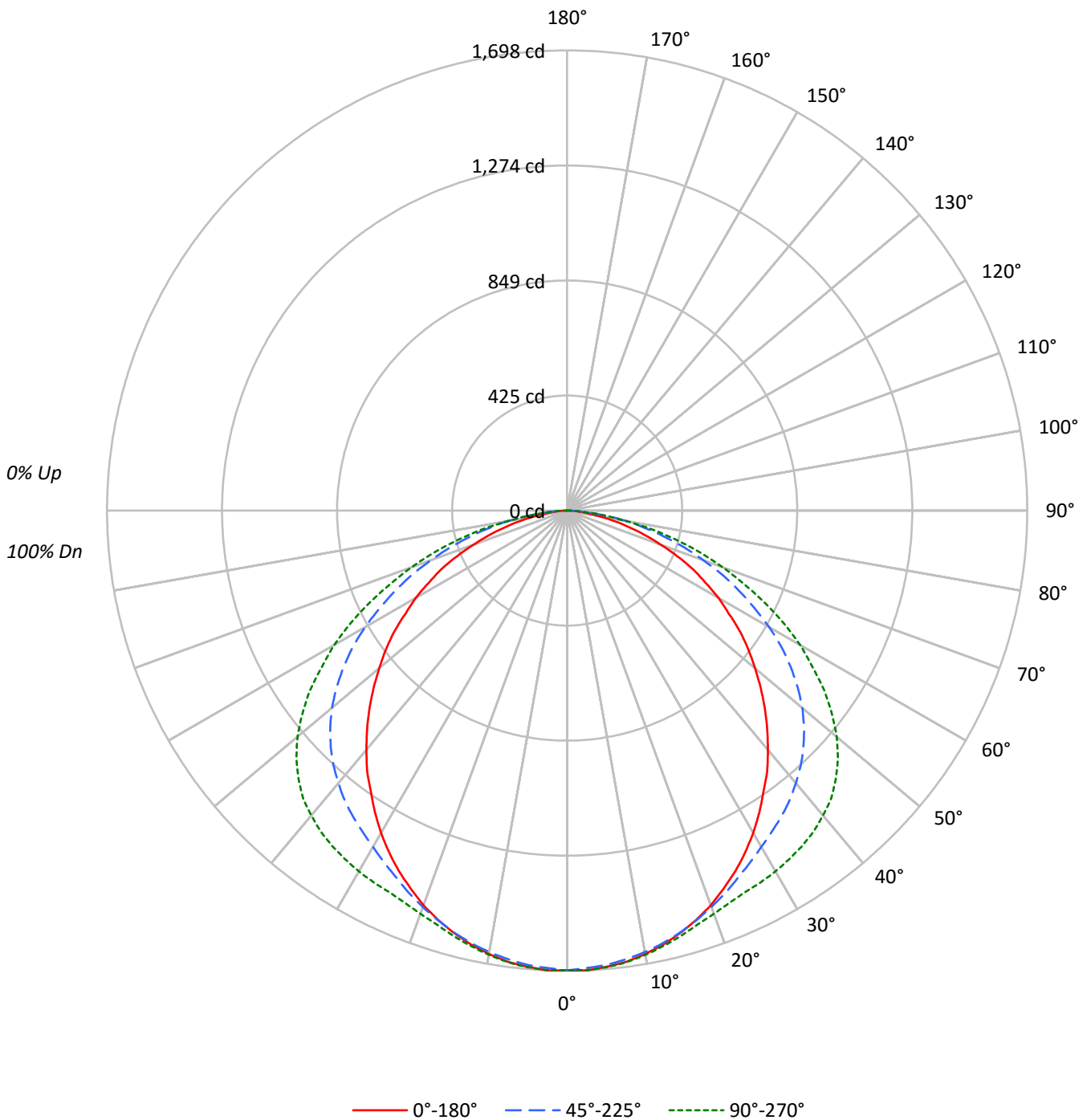
Input Watts (W): 40.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P220302

CATALOG NUMBER: Z3-WN-3L40-LD5-UNV-24

Luminous Intensity Polar Plot





TEST NUMBER: P220302

CATALOG NUMBER: Z3-WN-3L40-LD5-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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2283	2283	2283
5°	2282	2272	2284
10°	2270	2260	2274
15°	2248	2245	2262
20°	2219	2229	2267
25°	2180	2217	2306
30°	2133	2227	2389
35°	2076	2264	2482
40°	2024	2306	2579
45°	1964	2347	2667
50°	1894	2371	2719
55°	1828	2363	2719
60°	1736	2316	2673
65°	1632	2228	2560
70°	1446	2100	2399
75°	1222	1920	2159
80°	945	1712	1657
85°	655	1173	1119



TEST NUMBER: P220302

CATALOG NUMBER: Z3-WN-3L40-LD5-UNV-24

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.2	3.1
10°-20°	456.2	8.9
20°-30°	694.5	13.5
30°-40°	866.1	16.9
40°-50°	943.0	18.4
50°-60°	881.8	17.2
60°-70°	672.4	13.1
70°-80°	372.9	7.3
80°-90°	87.5	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1310.9	25.5
0°-40°	2177.0	42.4
0°-60°	4001.8	77.9
0°-90°	5134.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5134.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1696	1696	1696	1696	1696	
5°	1690	1690	1682	1690	1691	160
15°	1614	1614	1612	1622	1624	455
25°	1469	1474	1493	1536	1553	676
35°	1264	1292	1378	1476	1511	792
45°	1032	1087	1234	1359	1401	795
55°	779	855	1007	1124	1159	694
65°	512	580	700	783	804	503
75°	235	299	369	412	415	253
85°	42	72	76	76	72	54
90°	0	0	0	0	0	



TEST NUMBER: P220302

CATALOG NUMBER: Z3-WN-3L40-LD5-UNV-24

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1696.5	1696.5	1696.5	1696.5	1696.5
2.5°	1698.3	1694.8	1689.5	1694.8	1696.5
5°	1689.5	1689.5	1682.4	1689.5	1691.2
7.5°	1678.9	1677.1	1670.0	1678.9	1680.6
10°	1661.2	1659.4	1654.1	1661.2	1664.7
12.5°	1640.0	1638.2	1634.7	1645.3	1645.3
15°	1613.5	1613.5	1611.7	1622.3	1624.1
17.5°	1583.4	1583.4	1585.2	1597.6	1601.1
20°	1549.9	1549.9	1556.9	1576.4	1583.4
22.5°	1509.2	1512.8	1526.9	1553.4	1565.8
25°	1468.6	1473.9	1493.3	1535.7	1553.4
27.5°	1422.6	1431.5	1463.3	1521.6	1546.3
30°	1373.1	1385.5	1433.2	1509.2	1537.5
32.5°	1320.1	1337.8	1405.0	1493.3	1525.1
35°	1263.6	1291.8	1378.4	1475.6	1511.0
37.5°	1212.3	1240.6	1348.4	1454.4	1493.3
40°	1152.2	1187.6	1313.1	1429.7	1468.6
42.5°	1092.2	1139.9	1275.9	1397.9	1442.1
45°	1032.1	1086.8	1233.5	1359.0	1401.4
47.5°	968.4	1030.3	1185.8	1313.1	1355.5
50°	904.8	977.3	1132.8	1260.0	1298.9
52.5°	843.0	919.0	1072.7	1196.4	1231.8
55°	779.4	855.3	1007.3	1124.0	1159.3
57.5°	706.9	797.0	938.4	1044.4	1072.7
60°	645.0	722.8	860.6	959.6	993.2
62.5°	574.4	655.6	779.4	876.5	901.3
65°	512.5	579.7	699.8	782.9	804.1
67.5°	440.0	509.0	620.3	689.2	705.1
70°	367.6	436.5	533.7	599.1	609.7
72.5°	302.2	367.6	452.4	505.4	514.3
75°	235.0	298.7	369.4	411.8	415.3
77.5°	178.5	235.0	291.6	321.6	323.4
80°	121.9	171.4	220.9	224.4	213.8
82.5°	77.8	118.4	143.1	137.8	137.8
85°	42.4	72.5	76.0	76.0	72.5
87.5°	17.7	28.3	28.3	26.5	26.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)