

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: P220298

Luminaire Tested: **Z3-WN-4L35-LD5-UNV-24**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220298  
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-4L35-LD5-UNV-24  
Description: CLASS Z3 2X4 RECESSED LED LUMIANIRE  
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY  
Light Source: (168) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5813.2 lumens  
Efficiency: N/A  
Efficacy: 97.2 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

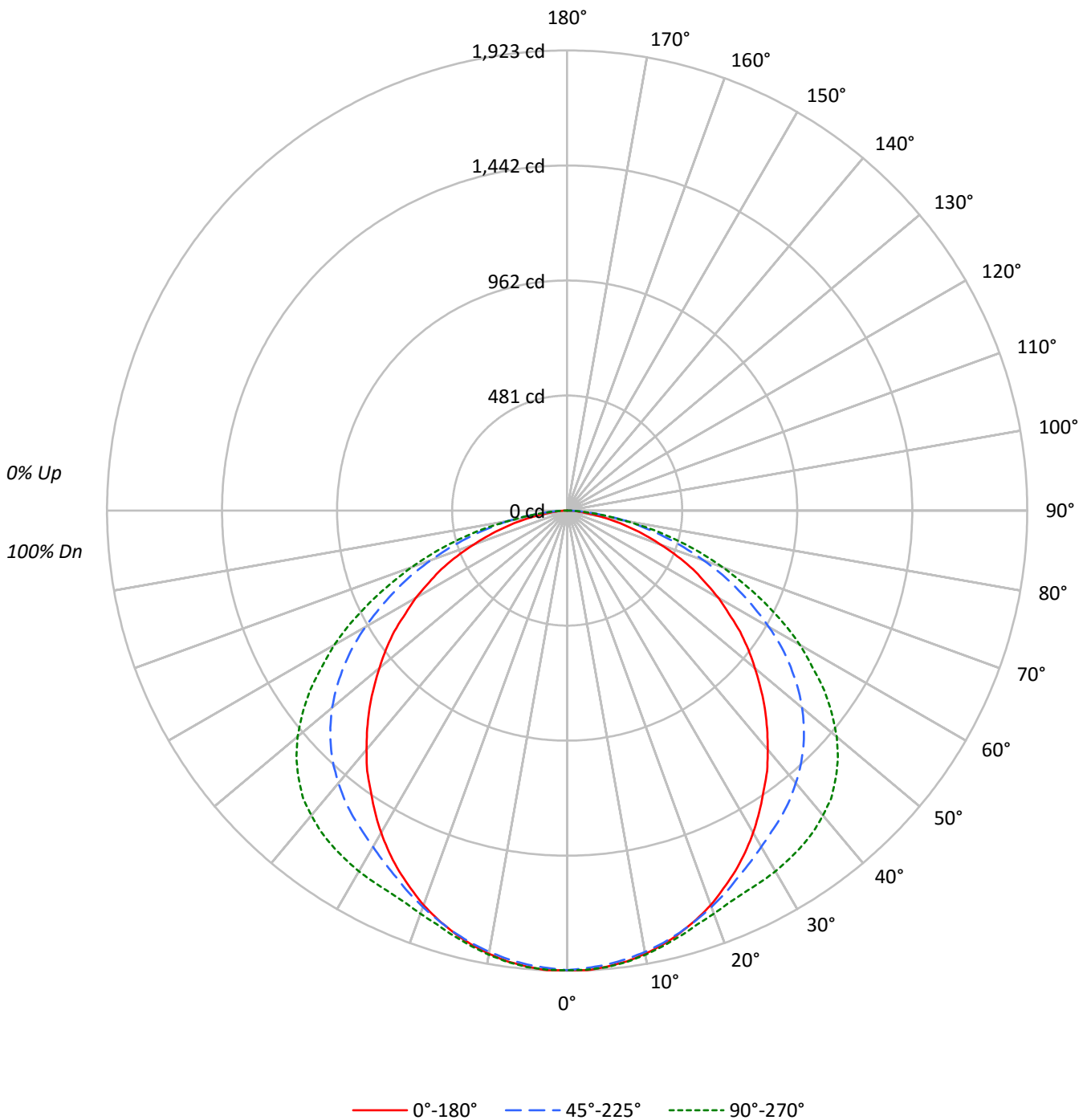
Input Watts (W): 59.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P220298

CATALOG NUMBER: Z3-WN-4L35-LD5-UNV-24

### Luminous Intensity Polar Plot





TEST NUMBER: P220298

CATALOG NUMBER: Z3-WN-4L35-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°	2584	2584	2584
5°	2583	2573	2586
10°	2570	2559	2575
15°	2545	2542	2561
20°	2512	2524	2567
25°	2468	2510	2611
30°	2415	2521	2704
35°	2350	2563	2810
40°	2291	2611	2920
45°	2223	2657	3019
50°	2144	2685	3078
55°	2070	2675	3079
60°	1965	2622	3026
65°	1847	2522	2898
70°	1637	2377	2716
75°	1383	2174	2444
80°	1070	1938	1876
85°	741	1328	1266



TEST NUMBER: P220298

CATALOG NUMBER: Z3-WN-4L35-LD5-UNV-24

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	181.4	3.1
10°-20°	516.5	8.9
20°-30°	786.3	13.5
30°-40°	980.5	16.9
40°-50°	1067.6	18.4
50°-60°	998.3	17.2
60°-70°	761.2	13.1
70°-80°	422.2	7.3
80°-90°	99.0	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°	1484.2	25.5
0°-40°	2464.7	42.4
0°-60°	4530.7	77.9
0°-90°	5813.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5813.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1921	1921	1921	1921	1921	
5°	1913	1913	1905	1913	1915	182
15°	1827	1827	1825	1837	1839	515
25°	1663	1669	1691	1739	1759	765
35°	1431	1463	1561	1671	1711	896
45°	1168	1230	1397	1539	1587	900
55°	882	968	1140	1272	1312	786
65°	580	656	792	886	910	569
75°	266	338	418	466	470	287
85°	48	82	86	86	82	61
90°	0	0	0	0	0	



TEST NUMBER: P220298

CATALOG NUMBER: Z3-WN-4L35-LD5-UNV-24

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1920.8	1920.8	1920.8	1920.8	1920.8
2.5°	1922.8	1918.8	1912.8	1918.8	1920.8
5°	1912.8	1912.8	1904.8	1912.8	1914.8
7.5°	1900.8	1898.8	1890.8	1900.8	1902.8
10°	1880.8	1878.8	1872.8	1880.8	1884.8
12.5°	1856.7	1854.7	1850.7	1862.7	1862.7
15°	1826.7	1826.7	1824.7	1836.7	1838.7
17.5°	1792.7	1792.7	1794.7	1808.7	1812.7
20°	1754.7	1754.7	1762.7	1784.7	1792.7
22.5°	1708.7	1712.7	1728.7	1758.7	1772.7
25°	1662.7	1668.7	1690.7	1738.7	1758.7
27.5°	1610.6	1620.7	1656.7	1722.7	1750.7
30°	1554.6	1568.6	1622.7	1708.7	1740.7
32.5°	1494.6	1514.6	1590.6	1690.7	1726.7
35°	1430.6	1462.6	1560.6	1670.7	1710.7
37.5°	1372.6	1404.6	1526.6	1646.7	1690.7
40°	1304.5	1344.5	1486.6	1618.7	1662.7
42.5°	1236.5	1290.5	1444.6	1582.6	1632.7
45°	1168.5	1230.5	1396.6	1538.6	1586.6
47.5°	1096.4	1166.5	1342.5	1486.6	1534.6
50°	1024.4	1106.4	1282.5	1426.6	1470.6
52.5°	954.4	1040.4	1214.5	1354.5	1394.6
55°	882.4	968.4	1140.5	1272.5	1312.5
57.5°	800.3	902.4	1062.4	1182.5	1214.5
60°	730.3	818.3	974.4	1086.4	1124.5
62.5°	650.3	742.3	882.4	992.4	1020.4
65°	580.2	656.3	792.3	886.4	910.4
67.5°	498.2	576.2	702.3	780.3	798.3
70°	416.2	494.2	604.2	678.3	690.3
72.5°	342.1	416.2	512.2	572.2	582.2
75°	266.1	338.1	418.2	466.2	470.2
77.5°	202.1	266.1	330.1	364.1	366.1
80°	138.1	194.1	250.1	254.1	242.1
82.5°	88.0	134.1	162.1	156.1	156.1
85°	48.0	82.0	86.0	86.0	82.0
87.5°	20.0	32.0	32.0	30.0	30.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)