

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: P220280

Luminaire Tested: **Z3-WD-5L30-LD5-UNV-24**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220280  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35867)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: Z3-WD-5L30-LD5-UNV-24  
Description: CLASS Z3 2X4 RECESSED LED LUMIANIRE  
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY  
Light Source: (168) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6233.7 lumens  
Efficiency: N/A  
Efficacy: 106.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.4 / 1.46  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

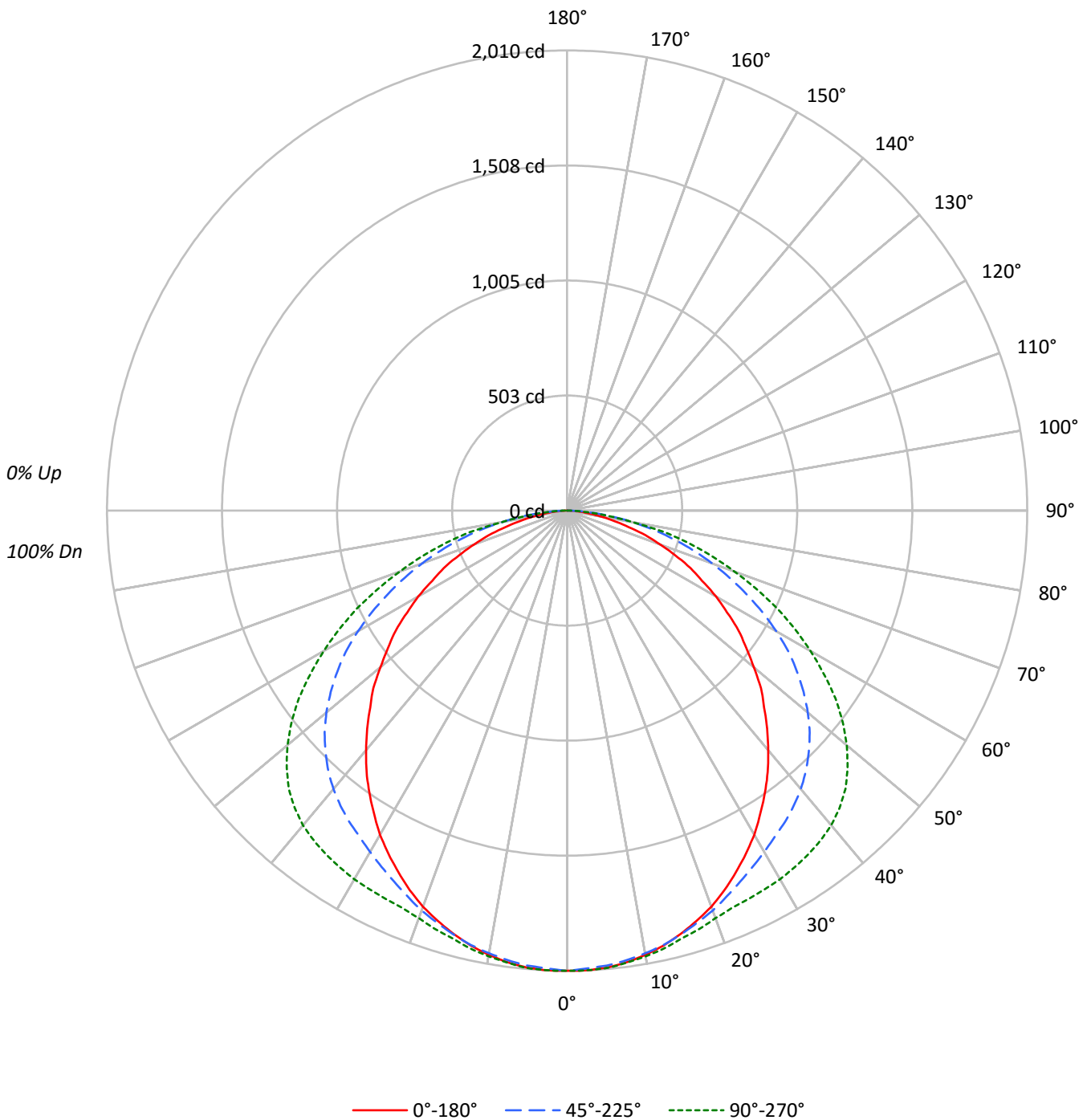
Input Watts (W): 58.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P220280

CATALOG NUMBER: Z3-WD-5L30-LD5-UNV-24

### Luminous Intensity Polar Plot





TEST NUMBER: P220280

CATALOG NUMBER: Z3-WD-5L30-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	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	60	68	64	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	51	48
5	75	61	52	45	73	60	52	45	58	51	45	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	34	48	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	32	27	25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2705	2705	2705
5°	2706	2694	2709
10°	2692	2683	2701
15°	2667	2670	2695
20°	2637	2662	2713
25°	2589	2655	2780
30°	2540	2675	2889
35°	2474	2725	3014
40°	2399	2790	3152
45°	2316	2840	3271
50°	2227	2873	3338
55°	2147	2876	3356
60°	2020	2839	3305
65°	1895	2751	3225
70°	1695	2648	3058
75°	1444	2494	2852
80°	1153	2238	2238
85°	823	1612	1544



TEST NUMBER: P220280

CATALOG NUMBER: Z3-WD-5L30-LD5-UNV-24

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	190.0	3.0
10°-20°	542.8	8.7
20°-30°	831.3	13.3
30°-40°	1042.2	16.7
40°-50°	1139.5	18.3
50°-60°	1069.9	17.2
60°-70°	826.2	13.3
70°-80°	475.2	7.6
80°-90°	116.5	1.9
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°	1564.1	25.1
0°-40°	2606.3	41.8
0°-60°	4815.8	77.3
0°-90°	6233.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6233.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2010	2010	2010	2010	2010	
5°	2004	1999	1995	2001	2006	190
15°	1915	1917	1917	1932	1935	540
25°	1744	1755	1788	1846	1872	803
35°	1506	1539	1659	1790	1835	942
45°	1217	1293	1493	1662	1719	940
55°	915	1020	1226	1384	1430	813
65°	595	698	864	977	1013	584
75°	278	371	480	538	549	300
85°	53	98	104	100	100	67
90°	0	0	0	0	0	



TEST NUMBER: P220280

CATALOG NUMBER: Z3-WD-5L30-LD5-UNV-24

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2010.2	2010.2	2010.2	2010.2	2010.2
2.5°	2010.2	2008.0	2001.3	2008.0	2010.2
5°	2003.6	1999.1	1994.7	2001.3	2005.8
7.5°	1990.2	1988.0	1981.3	1992.4	1992.4
10°	1970.2	1968.0	1963.6	1974.7	1976.9
12.5°	1945.8	1943.6	1943.6	1956.9	1959.1
15°	1914.7	1916.9	1916.9	1932.5	1934.7
17.5°	1879.2	1879.2	1888.0	1908.0	1916.9
20°	1841.4	1843.6	1859.2	1883.6	1894.7
22.5°	1794.8	1803.6	1823.6	1863.6	1879.2
25°	1743.7	1754.8	1788.1	1845.8	1872.5
27.5°	1690.4	1705.9	1754.8	1832.5	1865.8
30°	1634.8	1654.8	1721.5	1821.4	1859.2
32.5°	1570.4	1597.1	1688.1	1805.9	1848.1
35°	1506.0	1539.3	1659.3	1790.3	1834.7
37.5°	1439.4	1477.1	1625.9	1765.9	1817.0
40°	1366.1	1419.4	1588.2	1739.2	1794.8
42.5°	1292.8	1357.2	1543.8	1705.9	1761.4
45°	1217.2	1292.8	1492.7	1661.5	1719.2
47.5°	1148.4	1228.3	1437.1	1606.0	1661.5
50°	1064.0	1163.9	1372.7	1541.5	1594.8
52.5°	986.2	1095.1	1301.6	1468.2	1517.1
55°	915.1	1019.5	1226.1	1383.8	1430.5
57.5°	828.5	941.8	1146.2	1292.8	1330.5
60°	750.8	861.8	1055.1	1190.6	1228.3
62.5°	664.1	788.5	961.8	1088.4	1121.7
65°	595.3	697.5	864.1	977.3	1012.9
67.5°	510.9	613.1	768.5	868.5	892.9
70°	430.9	528.7	673.0	757.4	777.4
72.5°	359.8	446.5	577.5	646.4	664.1
75°	277.7	370.9	479.8	537.5	548.6
77.5°	211.0	293.2	386.5	424.3	433.1
80°	148.8	224.3	288.8	304.3	288.8
82.5°	95.5	157.7	197.7	188.8	182.1
85°	53.3	97.7	104.4	100.0	100.0
87.5°	22.2	35.5	35.5	33.3	35.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)