

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: P220303

Luminaire Tested: **Z3-WN-4L40-LD5-UNV-24**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220303  
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-4L40-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**

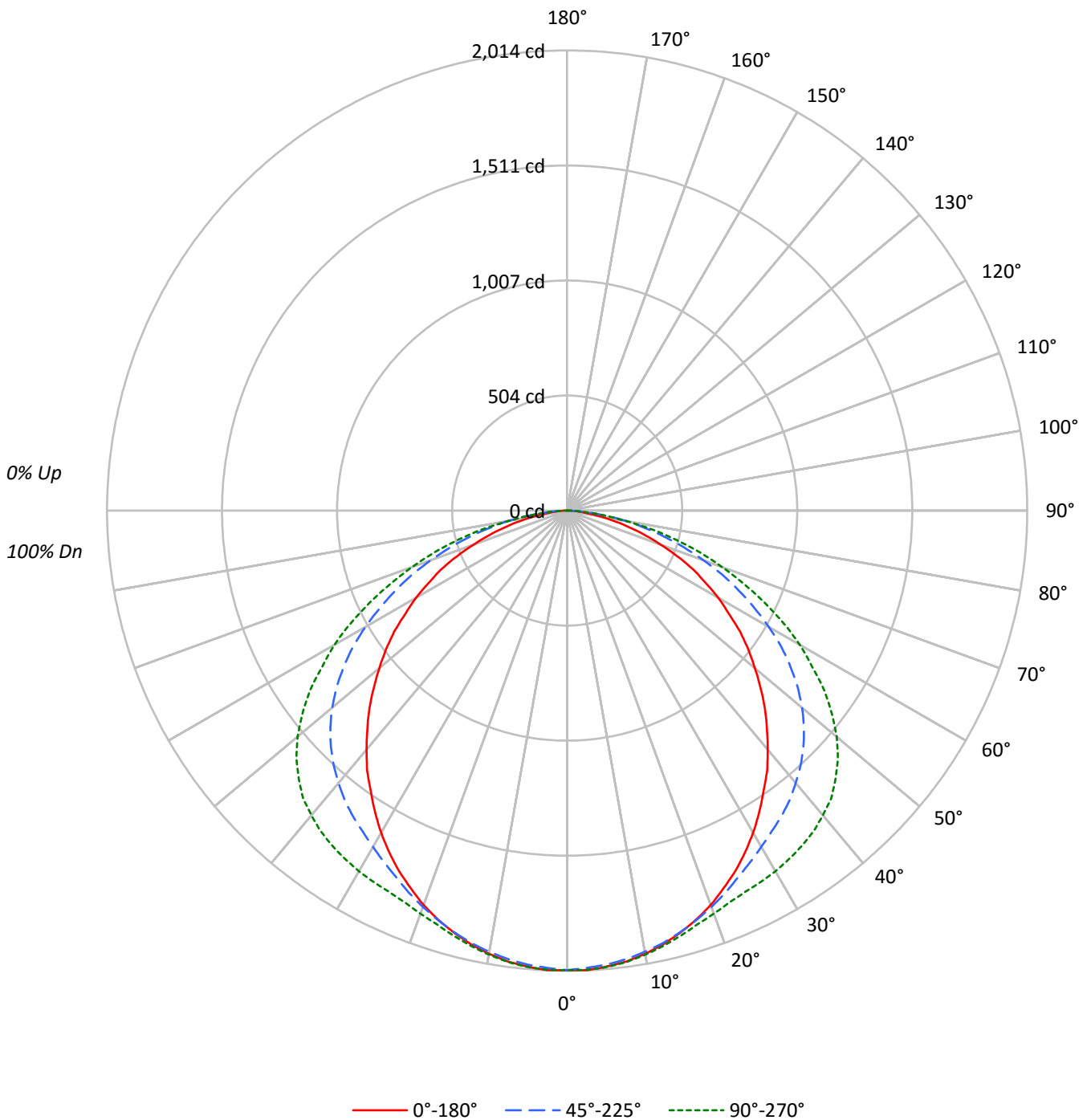
Lumens per Lamp: N/A  
Luminaire Lumens: 6087.4 lumens  
Efficiency: N/A  
Efficacy: 101.8 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.37 / 1.44  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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



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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	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°	2706	2706	2706
5°	2705	2694	2708
10°	2691	2679	2697
15°	2665	2662	2682
20°	2631	2643	2688
25°	2585	2628	2734
30°	2529	2640	2832
35°	2461	2684	2942
40°	2399	2734	3058
45°	2328	2783	3162
50°	2245	2811	3224
55°	2168	2802	3224
60°	2058	2746	3169
65°	1934	2642	3035
70°	1714	2489	2843
75°	1449	2276	2560
80°	1120	2029	1964
85°	777	1391	1326



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.9	3.1
10°-20°	540.8	8.9
20°-30°	823.4	13.5
30°-40°	1026.8	16.9
40°-50°	1118.0	18.4
50°-60°	1045.4	17.2
60°-70°	797.1	13.1
70°-80°	442.2	7.3
80°-90°	103.7	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°	1554.2	25.5
0°-40°	2581.0	42.4
0°-60°	4744.4	77.9
0°-90°	6087.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6087.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2011	2011	2011	2011	2011	
5°	2003	2003	1995	2003	2005	190
15°	1913	1913	1911	1923	1926	539
25°	1741	1747	1770	1821	1842	801
35°	1498	1532	1634	1750	1791	939
45°	1224	1288	1462	1611	1662	943
55°	924	1014	1194	1332	1374	823
65°	608	687	830	928	953	596
75°	279	354	438	488	492	300
85°	50	86	90	90	86	64
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2011.4	2011.4	2011.4	2011.4	2011.4
2.5°	2013.5	2009.3	2003.0	2009.3	2011.4
5°	2003.0	2003.0	1994.6	2003.0	2005.1
7.5°	1990.4	1988.3	1980.0	1990.4	1992.5
10°	1969.5	1967.4	1961.1	1969.5	1973.7
12.5°	1944.3	1942.2	1938.1	1950.6	1950.6
15°	1912.9	1912.9	1910.8	1923.4	1925.5
17.5°	1877.3	1877.3	1879.4	1894.1	1898.3
20°	1837.5	1837.5	1845.9	1868.9	1877.3
22.5°	1789.3	1793.5	1810.3	1841.7	1856.3
25°	1741.1	1747.4	1770.4	1820.7	1841.7
27.5°	1686.6	1697.1	1734.8	1804.0	1833.3
30°	1628.0	1642.6	1699.2	1789.3	1822.8
32.5°	1565.1	1586.1	1665.7	1770.4	1808.2
35°	1498.1	1531.6	1634.3	1749.5	1791.4
37.5°	1437.3	1470.8	1598.6	1724.3	1770.4
40°	1366.1	1408.0	1556.7	1695.0	1741.1
42.5°	1294.8	1351.4	1512.7	1657.3	1709.7
45°	1223.6	1288.5	1462.4	1611.2	1661.5
47.5°	1148.2	1221.5	1405.9	1556.7	1607.0
50°	1072.7	1158.6	1343.0	1493.9	1540.0
52.5°	999.4	1089.5	1271.8	1418.4	1460.4
55°	924.0	1014.1	1194.3	1332.5	1374.5
57.5°	838.1	944.9	1112.6	1238.3	1271.8
60°	764.7	856.9	1020.4	1137.7	1177.5
62.5°	680.9	777.3	924.0	1039.2	1068.6
65°	607.6	687.2	829.7	928.2	953.3
67.5°	521.7	603.4	735.4	817.1	836.0
70°	435.8	517.5	632.8	710.3	722.8
72.5°	358.3	435.8	536.4	599.2	609.7
75°	278.7	354.1	437.9	488.2	492.4
77.5°	211.6	278.7	345.7	381.3	383.4
80°	144.6	203.2	261.9	266.1	253.5
82.5°	92.2	140.4	169.7	163.4	163.4
85°	50.3	85.9	90.1	90.1	85.9
87.5°	21.0	33.5	33.5	31.4	31.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)