

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: P220293

Luminaire Tested: **Z3-WN-4L30-LD5-UNV-24**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220293  
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-4L30-LD5-UNV-24  
Description: CLASS Z3 2X4 RECESSED LED LUMIANIRE  
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY  
Light Source: (168) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5696.3 lumens  
Efficiency: N/A  
Efficacy: 95.3 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

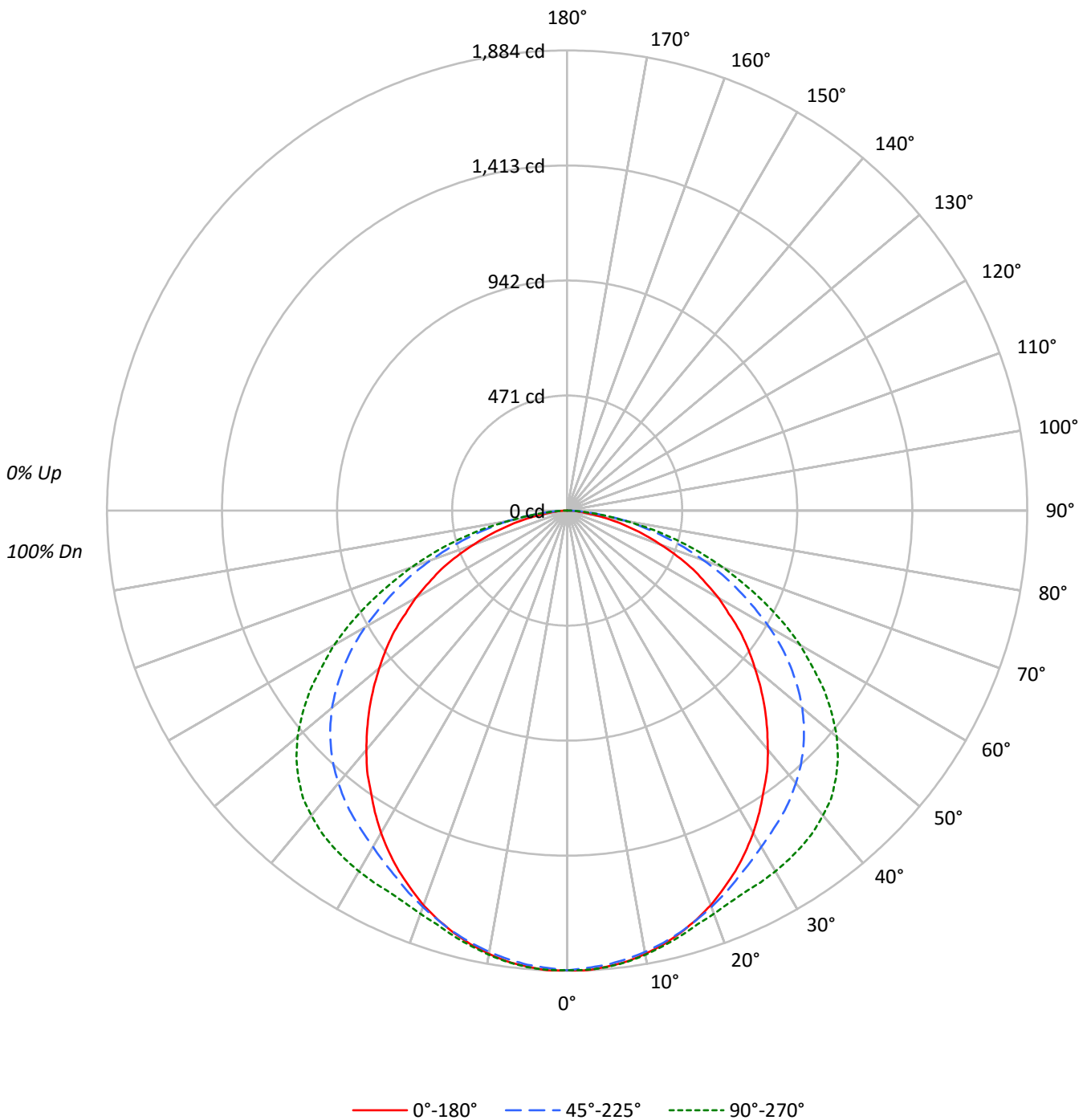
Input Watts (W): 59.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2532	2532	2532
5°	2531	2521	2534
10°	2518	2507	2523
15°	2493	2491	2510
20°	2462	2473	2515
25°	2419	2460	2558
30°	2367	2470	2650
35°	2303	2512	2753
40°	2245	2559	2862
45°	2179	2604	2958
50°	2101	2631	3016
55°	2028	2621	3017
60°	1926	2569	2965
65°	1810	2472	2840
70°	1604	2329	2661
75°	1356	2130	2395
80°	1048	1899	1838
85°	727	1301	1241



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.7	3.1
10°-20°	506.1	8.9
20°-30°	770.5	13.5
30°-40°	960.8	16.9
40°-50°	1046.2	18.4
50°-60°	978.2	17.2
60°-70°	745.9	13.1
70°-80°	413.8	7.3
80°-90°	97.0	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°	1454.3	25.5
0°-40°	2415.1	42.4
0°-60°	4439.6	77.9
0°-90°	5696.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5696.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1882	1882	1882	1882	1882	
5°	1874	1874	1866	1874	1876	178
15°	1790	1790	1788	1800	1802	505
25°	1629	1635	1657	1704	1723	750
35°	1402	1433	1529	1637	1676	878
45°	1145	1206	1368	1508	1555	882
55°	865	949	1118	1247	1286	770
65°	569	643	776	868	892	558
75°	261	331	410	457	461	281
85°	47	80	84	84	80	60
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1882.1	1882.1	1882.1	1882.1	1882.1
2.5°	1884.1	1880.2	1874.3	1880.2	1882.1
5°	1874.3	1874.3	1866.5	1874.3	1876.3
7.5°	1862.5	1860.6	1852.7	1862.5	1864.5
10°	1842.9	1841.0	1835.1	1842.9	1846.9
12.5°	1819.4	1817.4	1813.5	1825.3	1825.3
15°	1790.0	1790.0	1788.0	1799.8	1801.8
17.5°	1756.7	1756.7	1758.6	1772.4	1776.3
20°	1719.4	1719.4	1727.3	1748.8	1756.7
22.5°	1674.3	1678.2	1693.9	1723.3	1737.1
25°	1629.2	1635.1	1656.7	1703.7	1723.3
27.5°	1578.3	1588.1	1623.4	1688.0	1715.5
30°	1523.4	1537.1	1590.0	1674.3	1705.7
32.5°	1464.5	1484.2	1558.7	1656.7	1692.0
35°	1401.8	1433.2	1529.2	1637.1	1676.3
37.5°	1345.0	1376.3	1495.9	1613.5	1656.7
40°	1278.3	1317.5	1456.7	1586.1	1629.2
42.5°	1211.6	1264.6	1415.5	1550.8	1599.8
45°	1145.0	1205.7	1368.5	1507.7	1554.7
47.5°	1074.4	1143.0	1315.5	1456.7	1503.8
50°	1003.8	1084.2	1256.7	1397.9	1441.0
52.5°	935.2	1019.5	1190.1	1327.3	1366.5
55°	864.6	948.9	1117.5	1246.9	1286.1
57.5°	784.2	884.2	1041.1	1158.7	1190.1
60°	715.6	801.9	954.8	1064.6	1101.8
62.5°	637.2	727.4	864.6	972.4	999.9
65°	568.6	643.1	776.4	868.5	892.1
67.5°	488.2	564.6	688.2	764.6	782.3
70°	407.8	484.3	592.1	664.6	676.4
72.5°	335.3	407.8	501.9	560.7	570.5
75°	260.8	331.3	409.8	456.8	460.7
77.5°	198.0	260.8	323.5	356.8	358.8
80°	135.3	190.2	245.1	249.0	237.2
82.5°	86.3	131.4	158.8	152.9	152.9
85°	47.1	80.4	84.3	84.3	80.4
87.5°	19.6	31.4	31.4	29.4	29.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)