

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: P220252

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220252  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35865)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: Z3-WL-5L30-LD5-UNV-24  
Description: CLASS Z3 2X4 RECESSED LED LUMIANIRE  
WITH A FROSTED PRISMATIC ROUND LENS  
Light Source: (168) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6729.4 lumens  
Efficiency: N/A  
Efficacy: 114.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.31 / 1.39  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

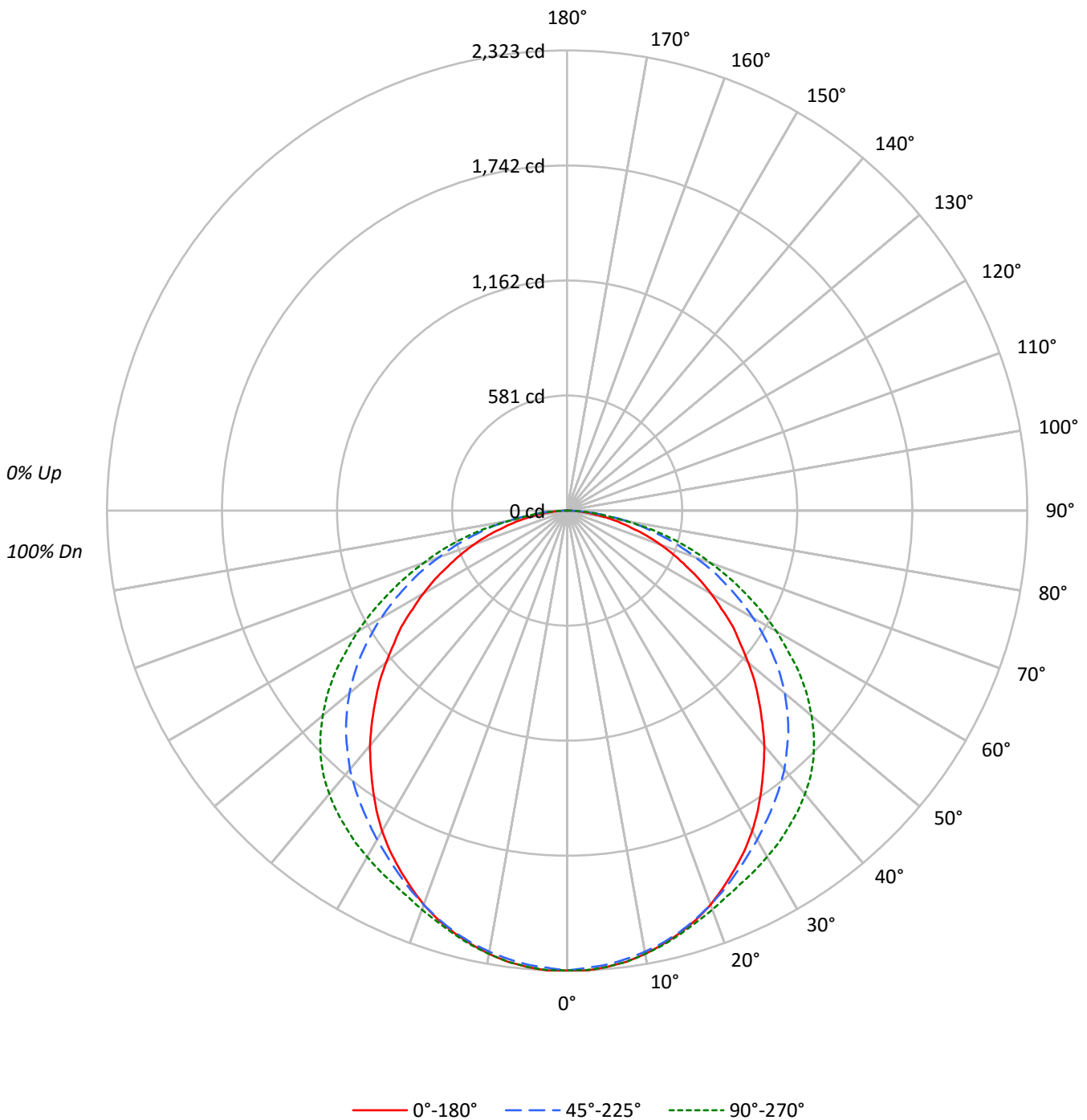
Input Watts (W): 58.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P220252

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

### Luminous Intensity Polar Plot





TEST NUMBER: P220252

CATALOG NUMBER: Z3-WL-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	109	104	99	95	106	101	97	94	97	94	91	93	90	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	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

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

	0°	45°	90°
0°	3123	3123	3123
5°	3123	3108	3123
10°	3105	3089	3105
15°	3072	3066	3082
20°	3031	3031	3069
25°	2968	2998	3083
30°	2902	2982	3137
35°	2809	2981	3203
40°	2719	2996	3281
45°	2608	3005	3347
50°	2497	3004	3371
55°	2397	2975	3361
60°	2259	2917	3288
65°	2107	2822	3168
70°	1966	2709	3023
75°	1744	2563	2840
80°	1532	2393	2272
85°	1303	1886	1851



TEST NUMBER: P220252

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

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	219.1	3.3
10°-20°	622.5	9.3
20°-30°	937.4	13.9
30°-40°	1142.1	17.0
40°-50°	1210.8	18.0
50°-60°	1112.7	16.5
60°-70°	852.4	12.7
70°-80°	498.1	7.4
80°-90°	134.3	2.0
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°	1779.0	26.4
0°-40°	2921.2	43.4
0°-60°	5244.6	77.9
0°-90°	6729.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6729.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2321	2321	2321	2321	2321	
5°	2312	2308	2301	2312	2312	219
15°	2206	2206	2201	2212	2212	622
25°	1999	2008	2019	2061	2077	921
35°	1710	1733	1815	1915	1950	1070
45°	1370	1424	1579	1715	1759	1059
55°	1022	1102	1268	1393	1433	908
65°	662	749	886	977	995	660
75°	335	411	493	542	546	361
85°	84	118	122	124	120	97
90°	0	0	0	0	0	



TEST NUMBER: P220252

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

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2321.2	2321.2	2321.2	2321.2	2321.2
2.5°	2323.4	2319.0	2310.1	2321.2	2321.2
5°	2312.3	2307.9	2301.2	2312.3	2312.3
7.5°	2296.8	2292.3	2283.4	2296.8	2296.8
10°	2272.3	2270.1	2261.2	2274.5	2272.3
12.5°	2241.2	2241.2	2234.6	2245.7	2245.7
15°	2205.7	2205.7	2201.2	2212.3	2212.3
17.5°	2165.7	2165.7	2161.3	2176.8	2176.8
20°	2116.8	2112.4	2116.8	2139.0	2143.5
22.5°	2059.1	2061.3	2070.2	2099.1	2107.9
25°	1999.1	2008.0	2019.1	2061.3	2076.9
27.5°	1936.9	1945.8	1968.0	2028.0	2050.2
30°	1868.1	1879.2	1919.1	1992.4	2019.1
32.5°	1792.5	1810.3	1865.8	1956.9	1988.0
35°	1710.3	1732.6	1814.7	1914.7	1950.2
37.5°	1628.2	1659.3	1761.4	1874.7	1912.5
40°	1548.2	1581.5	1705.9	1828.1	1868.1
42.5°	1459.3	1503.8	1641.5	1772.5	1819.2
45°	1370.5	1423.8	1579.3	1714.8	1759.2
47.5°	1286.1	1343.8	1508.2	1648.2	1690.4
50°	1192.8	1268.3	1434.9	1568.2	1610.4
52.5°	1101.7	1183.9	1355.0	1490.4	1526.0
55°	1021.8	1101.7	1268.3	1392.7	1432.7
57.5°	924.0	1019.5	1177.3	1295.0	1321.6
60°	839.6	921.8	1084.0	1192.8	1221.7
62.5°	753.0	841.8	988.4	1081.7	1110.6
65°	661.9	748.6	886.3	977.3	995.1
67.5°	582.0	666.4	793.0	861.8	884.0
70°	499.8	573.1	688.6	757.4	768.5
72.5°	419.8	493.1	593.1	646.4	661.9
75°	335.4	410.9	493.1	542.0	546.4
77.5°	266.5	331.0	402.0	428.7	430.9
80°	197.7	255.4	308.8	306.5	293.2
82.5°	135.5	179.9	208.8	204.4	195.5
85°	84.4	117.7	122.2	124.4	119.9
87.5°	37.8	46.6	51.1	51.1	48.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)