

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: P220304

Luminaire Tested: **Z3-WN-5L40-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220304
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-5L40-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: 6896.8 lumens
Efficiency: N/A
Efficacy: 117.7 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

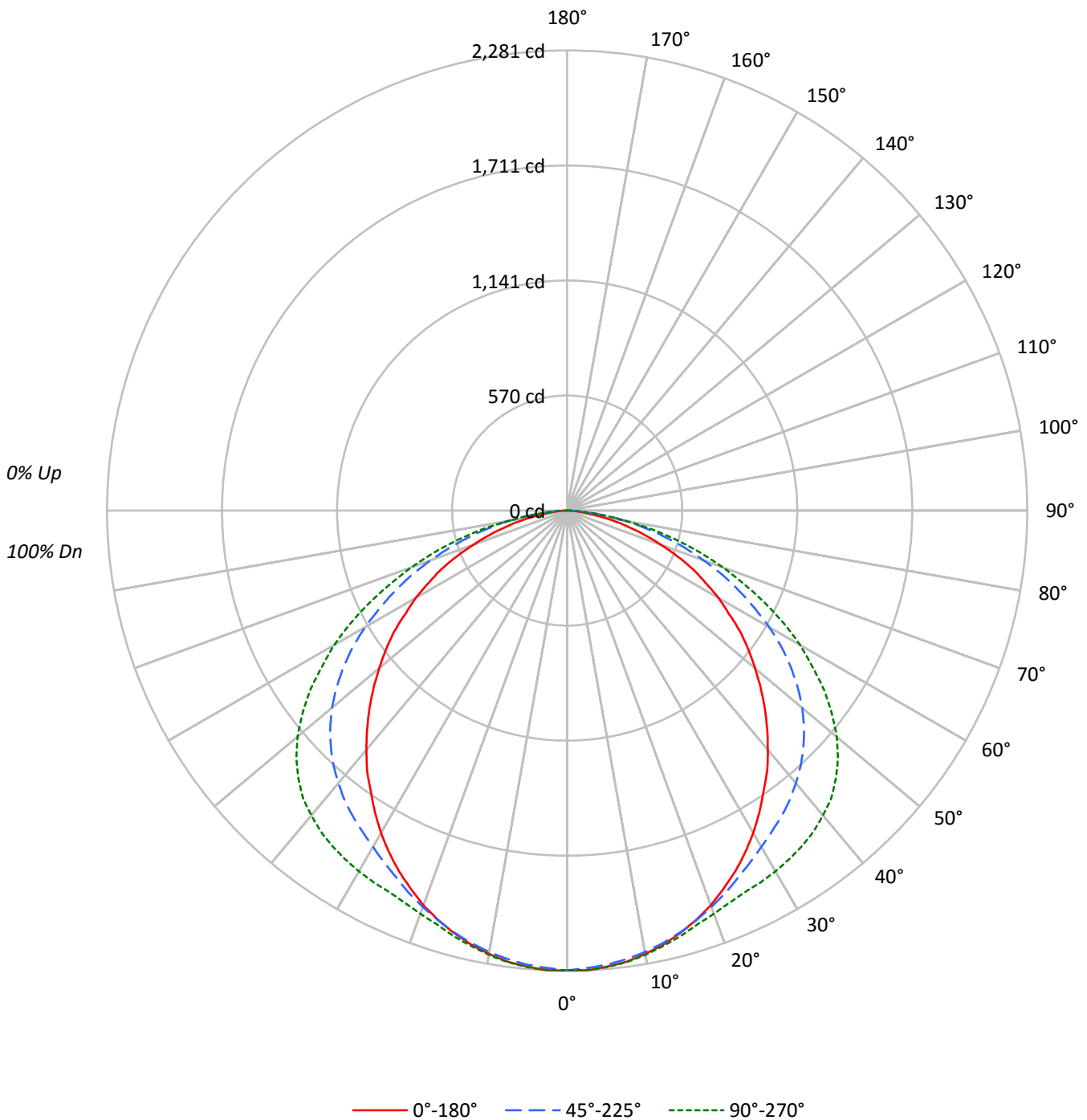
Input Watts (W): 58.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P220304

CATALOG NUMBER: Z3-WN-5L40-LD5-UNV-24

Luminous Intensity Polar Plot





TEST NUMBER: P220304

CATALOG NUMBER: Z3-WN-5L40-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°	3066	3066	3066
5°	3065	3052	3068
10°	3049	3036	3055
15°	3019	3016	3039
20°	2981	2994	3045
25°	2928	2978	3098
30°	2866	2991	3209
35°	2788	3041	3334
40°	2718	3098	3465
45°	2638	3153	3582
50°	2544	3185	3652
55°	2456	3174	3653
60°	2331	3111	3590
65°	2192	2993	3439
70°	1942	2820	3222
75°	1641	2579	2900
80°	1269	2299	2225
85°	880	1576	1502



TEST NUMBER: P220304

CATALOG NUMBER: Z3-WN-5L40-LD5-UNV-24

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.2	3.1
10°-20°	612.8	8.9
20°-30°	932.9	13.5
30°-40°	1163.3	16.9
40°-50°	1266.6	18.4
50°-60°	1184.4	17.2
60°-70°	903.1	13.1
70°-80°	500.9	7.3
80°-90°	117.5	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°	1760.8	25.5
0°-40°	2924.1	42.4
0°-60°	5375.2	77.9
0°-90°	6896.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6896.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2279	2279	2279	2279	2279	
5°	2269	2269	2260	2269	2272	215
15°	2167	2167	2165	2179	2182	611
25°	1973	1980	2006	2063	2086	908
35°	1697	1735	1852	1982	2030	1064
45°	1386	1460	1657	1825	1882	1068
55°	1047	1149	1353	1510	1557	932
65°	688	779	940	1052	1080	675
75°	316	401	496	553	558	340
85°	57	97	102	102	97	73
90°	0	0	0	0	0	



TEST NUMBER: P220304

CATALOG NUMBER: Z3-WN-5L40-LD5-UNV-24

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2278.8	2278.8	2278.8	2278.8	2278.8
2.5°	2281.2	2276.4	2269.3	2276.4	2278.8
5°	2269.3	2269.3	2259.8	2269.3	2271.7
7.5°	2255.1	2252.7	2243.2	2255.1	2257.4
10°	2231.3	2229.0	2221.8	2231.3	2236.1
12.5°	2202.8	2200.5	2195.7	2210.0	2210.0
15°	2167.2	2167.2	2164.9	2179.1	2181.5
17.5°	2126.9	2126.9	2129.3	2145.9	2150.6
20°	2081.8	2081.8	2091.3	2117.4	2126.9
22.5°	2027.2	2031.9	2050.9	2086.5	2103.2
25°	1972.6	1979.7	2005.8	2062.8	2086.5
27.5°	1910.9	1922.7	1965.5	2043.8	2077.0
30°	1844.4	1861.0	1925.1	2027.2	2065.2
32.5°	1773.2	1796.9	1887.1	2005.8	2048.6
35°	1697.2	1735.2	1851.5	1982.1	2029.6
37.5°	1628.4	1666.4	1811.2	1953.6	2005.8
40°	1547.7	1595.2	1763.7	1920.4	1972.6
42.5°	1467.0	1531.1	1713.9	1877.6	1937.0
45°	1386.3	1459.9	1656.9	1825.4	1882.4
47.5°	1300.8	1383.9	1592.8	1763.7	1820.7
50°	1215.4	1312.7	1521.6	1692.5	1744.7
52.5°	1132.3	1234.4	1440.9	1607.0	1654.5
55°	1046.8	1148.9	1353.0	1509.7	1557.2
57.5°	949.5	1070.6	1260.5	1402.9	1440.9
60°	866.4	970.9	1156.0	1289.0	1334.1
62.5°	771.5	880.7	1046.8	1177.4	1210.6
65°	688.4	778.6	940.0	1051.6	1080.1
67.5°	591.1	683.6	833.2	925.8	947.1
70°	493.7	586.3	716.9	804.7	818.9
72.5°	405.9	493.7	607.7	678.9	690.8
75°	315.7	401.2	496.1	553.1	557.8
77.5°	239.7	315.7	391.7	432.0	434.4
80°	163.8	230.3	296.7	301.5	287.2
82.5°	104.4	159.0	192.3	185.2	185.2
85°	57.0	97.3	102.1	102.1	97.3
87.5°	23.7	38.0	38.0	35.6	35.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)