

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: P220051

Luminaire Tested: **Z3-WN-5L35-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220051
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35876)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WN-5L35-LD5-UNV-14
Description: CLASS Z3 1X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5659.1 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

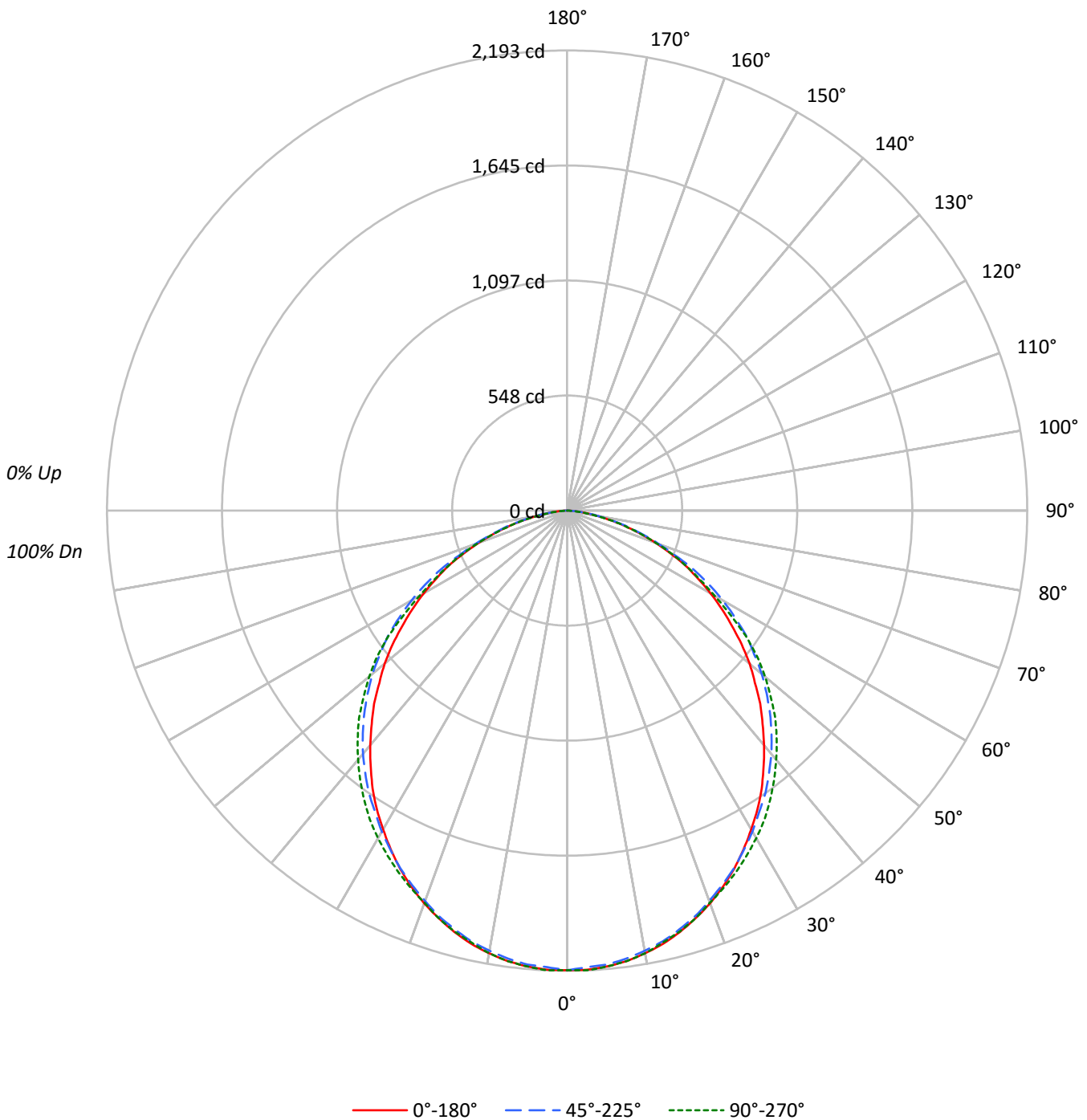
Input Watts (W): 54
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P220051

CATALOG NUMBER: Z3-WN-5L35-LD5-UNV-14

Luminous Intensity Polar Plot





TEST NUMBER: P220051

CATALOG NUMBER: Z3-WN-5L35-LD5-UNV-14

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	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5894	5894	5894
5°	5891	5867	5891
10°	5853	5820	5853
15°	5792	5758	5783
20°	5704	5670	5695
25°	5593	5584	5646
30°	5451	5489	5601
35°	5310	5408	5537
40°	5129	5319	5446
45°	4950	5202	5339
50°	4754	5068	5156
55°	4496	4891	4862
60°	4252	4608	4365
65°	3979	4227	3998
70°	3522	3640	3545
75°	2967	3123	2967
80°	2281	2374	2142
85°	1392	1392	1207



TEST NUMBER: P220051

CATALOG NUMBER: Z3-WN-5L35-LD5-UNV-14

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.7	3.7
10°-20°	584.8	10.3
20°-30°	870.0	15.4
30°-40°	1030.6	18.2
40°-50°	1045.9	18.5
50°-60°	910.1	16.1
60°-70°	636.1	11.2
70°-80°	314.3	5.6
80°-90°	60.6	1.1
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°	1661.5	29.4
0°-40°	2692.1	47.6
0°-60°	4648.1	82.1
0°-90°	5659.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5659.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2190	2190	2190	2190	2190	
5°	2181	2181	2172	2184	2181	207
15°	2079	2079	2067	2079	2076	586
25°	1884	1884	1881	1896	1902	867
35°	1616	1619	1646	1679	1685	1009
45°	1301	1316	1367	1394	1403	1002
55°	958	1000	1042	1046	1036	859
65°	625	652	664	634	628	613
75°	285	306	300	285	285	305
85°	45	51	45	42	39	60
90°	0	0	0	0	0	



TEST NUMBER: P220051

CATALOG NUMBER: Z3-WN-5L35-LD5-UNV-14

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2190.1	2190.1	2190.1	2190.1	2190.1
2.5°	2190.1	2190.1	2178.0	2190.1	2193.1
5°	2181.0	2181.0	2172.0	2184.0	2181.0
7.5°	2166.0	2163.0	2154.0	2163.0	2166.0
10°	2142.0	2139.0	2130.0	2142.0	2142.0
12.5°	2114.9	2111.9	2102.9	2111.9	2108.9
15°	2078.9	2078.9	2066.9	2078.9	2075.9
17.5°	2036.8	2036.8	2027.8	2033.8	2036.8
20°	1991.8	1991.8	1979.8	1994.8	1988.8
22.5°	1940.7	1940.7	1931.7	1946.7	1946.7
25°	1883.6	1883.6	1880.6	1895.6	1901.7
27.5°	1820.5	1823.5	1823.5	1847.6	1853.6
30°	1754.4	1757.5	1766.5	1796.5	1802.5
32.5°	1688.4	1691.4	1703.4	1739.4	1748.4
35°	1616.3	1619.3	1646.3	1679.3	1685.4
37.5°	1538.1	1547.2	1580.2	1613.2	1619.3
40°	1460.0	1469.0	1514.1	1541.1	1550.2
42.5°	1378.9	1396.9	1442.0	1469.0	1478.1
45°	1300.8	1315.8	1366.9	1393.9	1403.0
47.5°	1213.7	1234.7	1288.8	1315.8	1315.8
50°	1135.6	1159.6	1210.7	1231.7	1231.7
52.5°	1048.5	1081.5	1123.6	1147.6	1141.6
55°	958.3	1000.4	1042.5	1045.5	1036.4
57.5°	874.2	913.3	949.3	946.3	919.3
60°	790.1	823.1	856.2	832.2	811.1
62.5°	703.0	739.0	763.1	724.0	715.0
65°	624.9	651.9	663.9	633.9	627.9
67.5°	531.7	564.8	555.8	546.8	540.8
70°	447.6	474.7	462.6	453.6	450.6
72.5°	363.5	390.5	378.5	372.5	363.5
75°	285.4	306.4	300.4	285.4	285.4
77.5°	210.3	228.3	219.3	213.3	210.3
80°	147.2	156.2	153.2	144.2	138.2
82.5°	87.1	99.1	93.1	87.1	84.1
85°	45.1	51.1	45.1	42.1	39.1
87.5°	15.0	15.0	12.0	9.0	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)