

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: P220031

Luminaire Tested: **Z3-WD-4L30-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220031
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35875)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WD-4L30-LD5-UNV-14
Description: CLASS Z3 1X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4433.2 lumens
Efficiency: N/A
Efficacy: 102.4 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

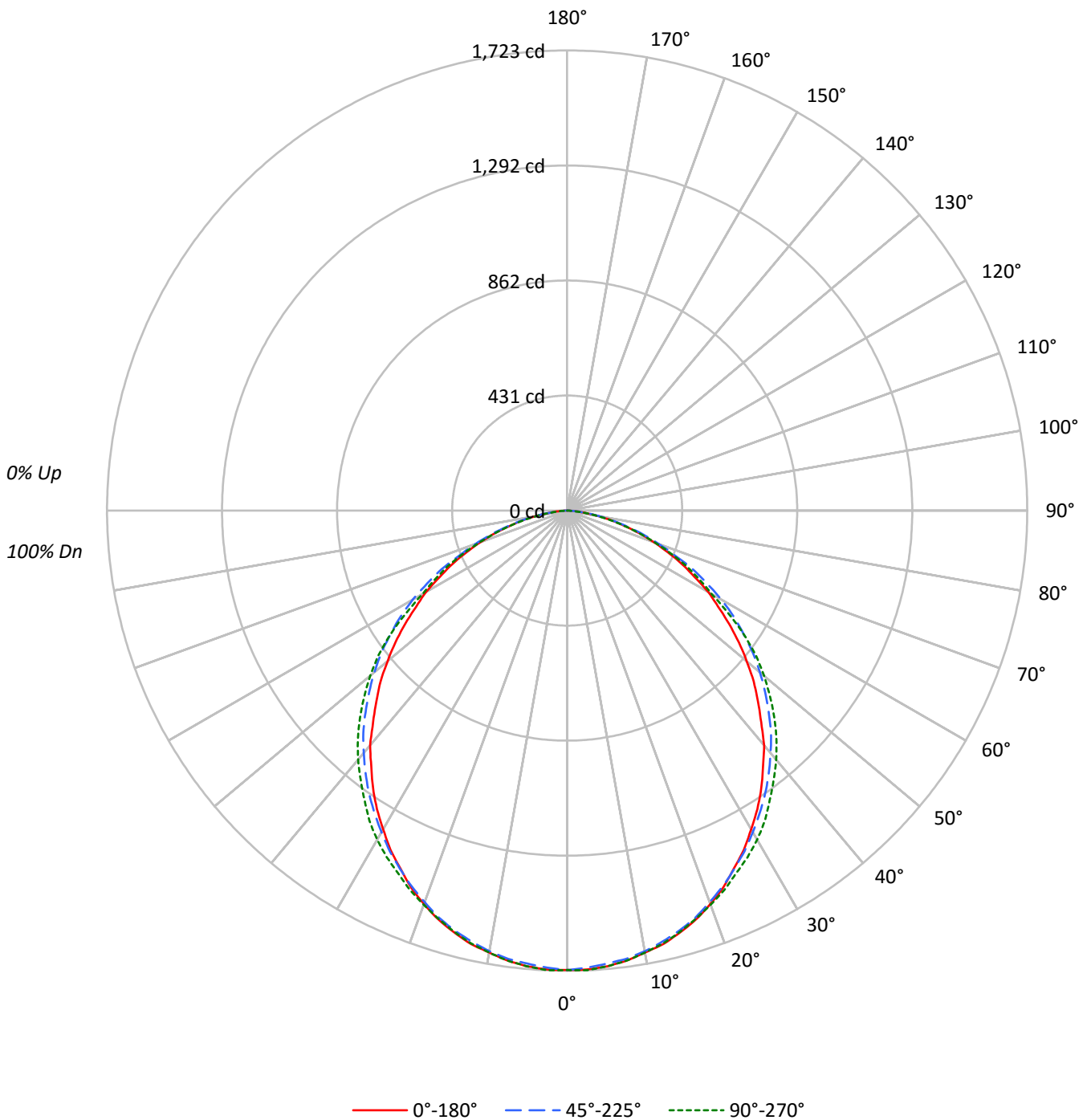
Input Watts (W): 43.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P220031

CATALOG NUMBER: Z3-WD-4L30-LD5-UNV-14

Luminous Intensity Polar Plot





TEST NUMBER: P220031

CATALOG NUMBER: Z3-WD-4L30-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	65	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	43	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	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	39	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4629	4629	4629
5°	4627	4600	4627
10°	4591	4578	4591
15°	4556	4535	4549
20°	4490	4468	4497
25°	4388	4395	4447
30°	4281	4320	4421
35°	4165	4247	4346
40°	4032	4163	4278
45°	3844	4063	4177
50°	3674	3947	4030
55°	3472	3789	3789
60°	3284	3593	3364
65°	3025	3296	3137
70°	2715	2873	2755
75°	2313	2443	2313
80°	1821	1898	1782
85°	1158	1158	926



TEST NUMBER: P220031

CATALOG NUMBER: Z3-WD-4L30-LD5-UNV-14

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.3	3.7
10°-20°	460.0	10.4
20°-30°	684.9	15.4
30°-40°	809.7	18.3
40°-50°	817.6	18.4
50°-60°	706.8	15.9
60°-70°	493.4	11.1
70°-80°	248.9	5.6
80°-90°	49.6	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°	1307.2	29.5
0°-40°	2116.9	47.8
0°-60°	3641.3	82.1
0°-90°	4433.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4433.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1720	1720	1720	1720	1720	
5°	1713	1710	1703	1713	1713	162
15°	1635	1633	1628	1633	1633	461
25°	1478	1480	1480	1495	1498	681
35°	1268	1273	1293	1318	1323	792
45°	1010	1025	1068	1095	1098	781
55°	740	773	808	818	808	663
65°	475	505	518	490	493	469
75°	222	245	235	228	222	239
85°	38	42	38	32	30	50
90°	0	0	0	0	0	



TEST NUMBER: P220031

CATALOG NUMBER: Z3-WD-4L30-LD5-UNV-14

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1720.3	1720.3	1720.3	1720.3	1720.3
2.5°	1720.3	1720.3	1712.8	1722.8	1722.8
5°	1712.8	1710.3	1702.8	1712.8	1712.8
7.5°	1700.3	1697.8	1692.8	1700.3	1700.3
10°	1680.3	1680.3	1675.3	1682.8	1680.3
12.5°	1662.8	1660.3	1652.8	1660.3	1660.3
15°	1635.3	1632.8	1627.8	1632.8	1632.8
17.5°	1605.3	1600.3	1597.8	1602.8	1602.8
20°	1567.8	1565.3	1560.3	1570.3	1570.3
22.5°	1527.8	1522.8	1522.8	1532.8	1537.8
25°	1477.8	1480.3	1480.3	1495.3	1497.8
27.5°	1432.8	1432.8	1437.8	1455.3	1462.8
30°	1377.8	1382.8	1390.3	1412.8	1422.8
32.5°	1325.3	1332.8	1342.8	1370.3	1377.8
35°	1267.8	1272.8	1292.8	1317.8	1322.8
37.5°	1205.2	1210.2	1240.3	1267.8	1270.3
40°	1147.7	1150.2	1185.2	1210.2	1217.7
42.5°	1075.2	1092.7	1130.2	1155.2	1160.2
45°	1010.2	1025.2	1067.7	1095.2	1097.7
47.5°	947.7	962.7	1005.2	1027.7	1030.2
50°	877.7	897.7	942.7	960.2	962.7
52.5°	810.2	835.2	877.7	892.7	890.2
55°	740.1	772.7	807.7	817.7	807.7
57.5°	670.1	707.6	740.1	737.6	715.1
60°	610.1	637.6	667.6	645.1	625.1
62.5°	537.6	572.6	590.1	560.1	557.6
65°	475.1	505.1	517.6	490.1	492.6
67.5°	407.6	437.6	432.6	425.1	420.1
70°	345.1	375.1	365.1	355.1	350.1
72.5°	285.1	310.1	300.1	292.6	285.1
75°	222.5	245.0	235.0	227.5	222.5
77.5°	170.0	182.5	177.5	170.0	165.0
80°	117.5	130.0	122.5	115.0	115.0
82.5°	72.5	82.5	75.0	70.0	67.5
85°	37.5	42.5	37.5	32.5	30.0
87.5°	15.0	15.0	10.0	7.5	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)