

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: P220008

Luminaire Tested: **Z3-WL-4L35-LD5-UNV-14**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220008  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35873)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: Z3-WL-4L35-LD5-UNV-14  
Description: CLASS Z3 1X4 RECESSED LED LUMIANIRE  
WITH A FROSTED PRISMATIC ROUND LENS  
Light Source: (168) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5058.9 lumens  
Efficiency: N/A  
Efficacy: 116.8 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.31  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

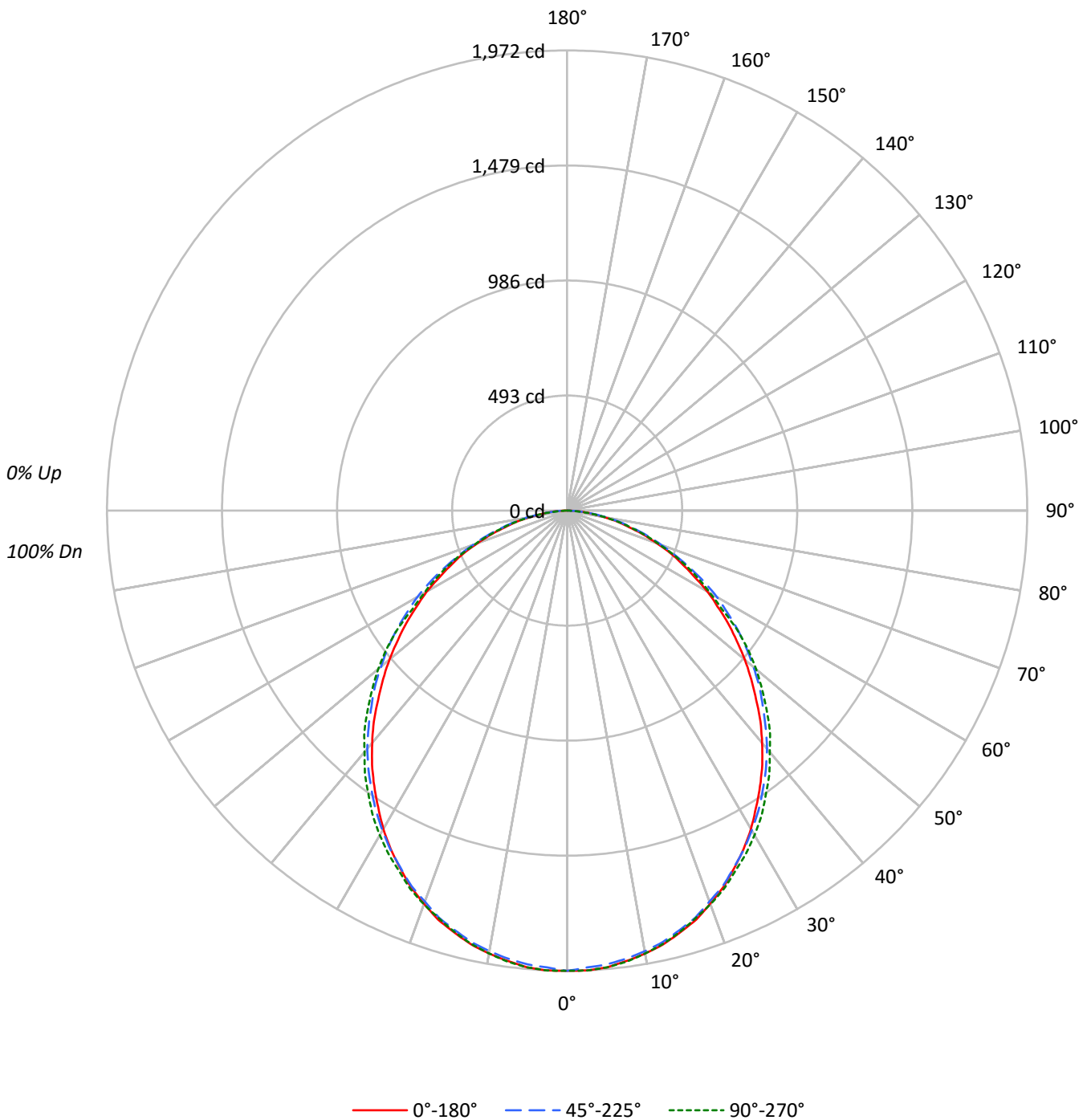
Input Watts (W): 43.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P220008

CATALOG NUMBER: Z3-WL-4L35-LD5-UNV-14

### Luminous Intensity Polar Plot





TEST NUMBER: P220008

CATALOG NUMBER: Z3-WL-4L35-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	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	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	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	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°	5308	5308	5308
5°	5308	5274	5308
10°	5266	5238	5266
15°	5214	5185	5206
20°	5135	5106	5142
25°	5023	5016	5061
30°	4896	4919	4990
35°	4735	4802	4877
40°	4566	4682	4744
45°	4360	4513	4600
50°	4161	4362	4425
55°	3951	4188	4164
60°	3743	3988	3811
65°	3478	3687	3591
70°	3203	3382	3283
75°	2865	3051	2972
80°	2507	2704	2548
85°	2109	2032	1874



TEST NUMBER: P220008

CATALOG NUMBER: Z3-WL-4L35-LD5-UNV-14

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	186.0	3.7
10°-20°	526.7	10.4
20°-30°	781.5	15.4
30°-40°	915.3	18.1
40°-50°	913.3	18.1
50°-60°	785.1	15.5
60°-70°	563.4	11.1
70°-80°	309.6	6.1
80°-90°	77.9	1.5
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°	1494.2	29.5
0°-40°	2409.5	47.6
0°-60°	4107.9	81.2
0°-90°	5058.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5058.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1972	1972	1972	1972	1972	
5°	1965	1962	1952	1965	1965	186
15°	1871	1869	1861	1871	1869	528
25°	1692	1692	1689	1704	1704	779
35°	1442	1446	1462	1482	1484	901
45°	1146	1158	1186	1209	1209	885
55°	842	865	893	898	888	752
65°	546	572	579	569	564	542
75°	276	296	293	293	286	296
85°	68	71	66	58	61	78
90°	0	0	0	0	0	



TEST NUMBER: P220008

CATALOG NUMBER: Z3-WL-4L35-LD5-UNV-14

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1972.5	1972.5	1972.5	1972.5	1972.5
2.5°	1972.5	1970.0	1959.9	1972.5	1972.5
5°	1964.9	1962.4	1952.3	1964.9	1964.9
7.5°	1947.2	1947.2	1937.1	1947.2	1949.8
10°	1927.0	1927.0	1916.9	1929.5	1927.0
12.5°	1904.2	1899.2	1894.1	1904.2	1901.7
15°	1871.4	1868.8	1861.3	1871.4	1868.8
17.5°	1838.5	1833.4	1828.4	1836.0	1830.9
20°	1793.0	1790.4	1782.9	1795.5	1795.5
22.5°	1747.5	1744.9	1742.4	1752.5	1755.0
25°	1691.8	1691.8	1689.3	1704.5	1704.5
27.5°	1636.2	1636.2	1638.7	1656.4	1658.9
30°	1575.5	1575.5	1583.1	1603.3	1605.8
32.5°	1507.2	1512.3	1524.9	1547.7	1550.2
35°	1441.5	1446.5	1461.7	1481.9	1484.5
37.5°	1373.2	1378.2	1398.5	1418.7	1423.8
40°	1299.8	1304.9	1332.7	1350.4	1350.4
42.5°	1226.5	1234.1	1259.4	1282.1	1287.2
45°	1145.6	1158.2	1186.0	1208.8	1208.8
47.5°	1069.7	1087.4	1117.8	1138.0	1132.9
50°	993.9	1011.6	1041.9	1059.6	1057.1
52.5°	915.5	935.7	968.6	981.2	976.1
55°	842.1	864.9	892.7	897.8	887.6
57.5°	763.7	789.0	814.3	814.3	786.5
60°	695.4	715.7	741.0	713.1	708.1
62.5°	614.5	644.9	662.6	637.3	637.3
65°	546.2	571.5	579.1	569.0	563.9
67.5°	480.5	500.7	500.7	495.7	493.1
70°	407.1	429.9	429.9	422.3	417.3
72.5°	341.4	364.2	361.6	361.6	351.5
75°	275.6	295.9	293.4	293.4	285.8
77.5°	220.0	230.1	235.2	227.6	225.1
80°	161.8	172.0	174.5	166.9	164.4
82.5°	108.7	118.9	118.9	113.8	108.7
85°	68.3	70.8	65.8	58.2	60.7
87.5°	30.3	27.8	22.8	15.2	15.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)