

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: P220134

Luminaire Tested: **Z3-WL-5L35-LD5-UNV-22**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220134  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35857)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: Z3-WL-5L35-LD5-UNV-22  
Description: CLASS Z3 2X2 RECESSED LED LUMIANIRE  
WITH A FROSTED PRISMATIC ROUND LENS  
Light Source: (84) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3904.1 lumens  
Efficiency: N/A  
Efficacy: 109.7 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.23 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

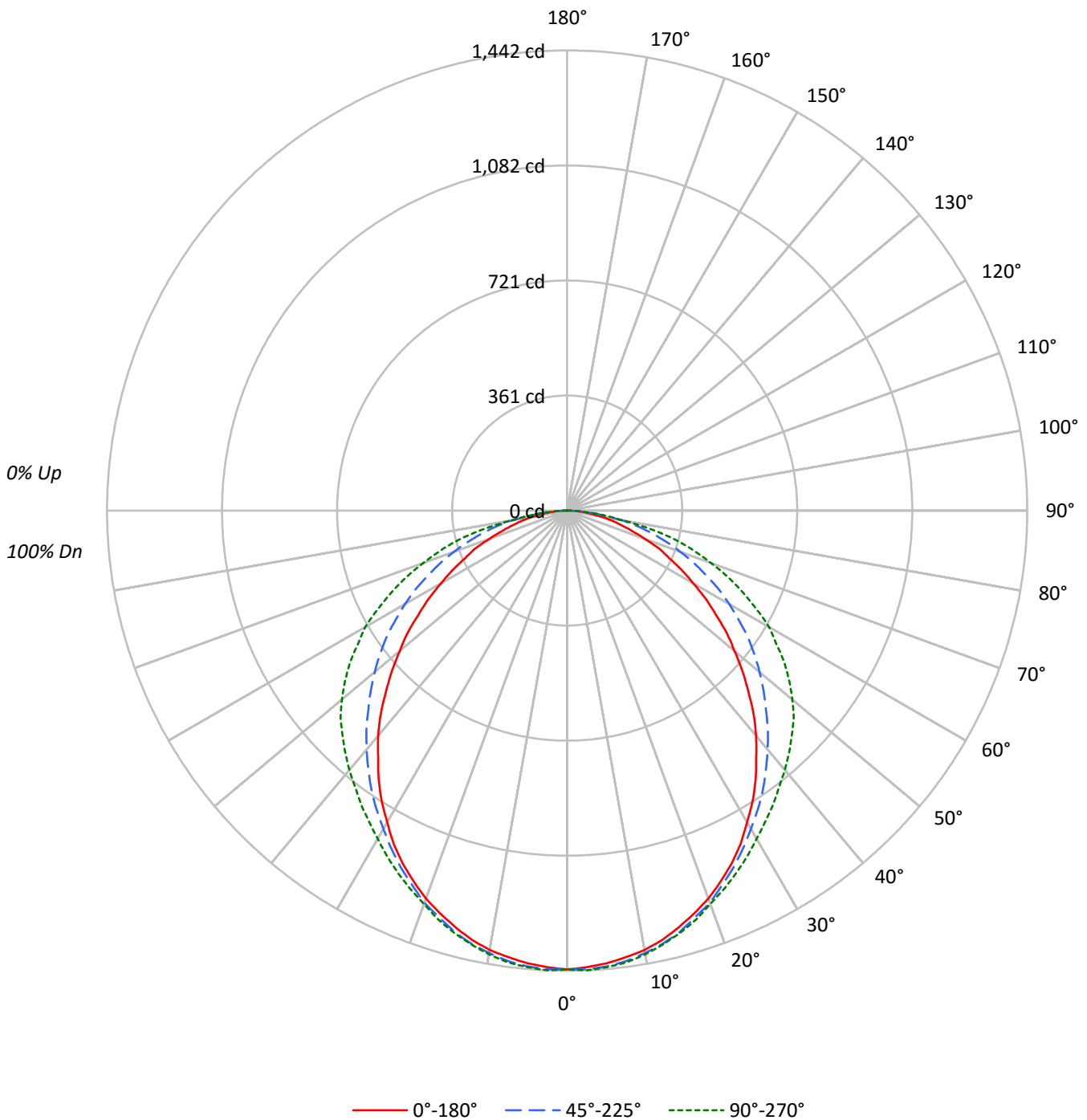
Input Watts (W): 35.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P220134

CATALOG NUMBER: Z3-WL-5L35-LD5-UNV-22

### Luminous Intensity Polar Plot





TEST NUMBER: P220134

CATALOG NUMBER: Z3-WL-5L35-LD5-UNV-22

**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	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					100			
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84					84			
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70					70			
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61	59					59			
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50					50			
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43					43			
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38					38			
7	65	51	43	36	63	51	42	36	49	42	36	48	41	36	46	40	36	34					34			
8	60	47	38	33	59	46	38	32	45	38	32	44	37	32	42	36	32	30					30			
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27					27			
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24					24			

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

	0°	45°	90°
0°	3869	3869	3869
5°	3846	3873	3879
10°	3819	3847	3858
15°	3766	3805	3816
20°	3705	3745	3756
25°	3621	3663	3722
30°	3503	3578	3690
35°	3381	3513	3697
40°	3236	3433	3729
45°	3056	3353	3788
50°	2867	3295	3857
55°	2668	3241	3899
60°	2457	3158	3934
65°	2245	3060	3864
70°	2048	2962	3766
75°	1832	2853	3644
80°	1613	2669	2731
85°	1423	2103	2041



TEST NUMBER: P220134

CATALOG NUMBER: Z3-WL-5L35-LD5-UNV-22

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.8	3.5
10°-20°	384.1	9.8
20°-30°	568.9	14.6
30°-40°	670.7	17.2
40°-50°	687.7	17.6
50°-60°	621.7	15.9
60°-70°	478.1	12.2
70°-80°	283.3	7.3
80°-90°	73.7	1.9
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°	1088.8	27.9
0°-40°	1759.5	45.1
0°-60°	3069.0	78.6
0°-90°	3904.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3904.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1438	1438	1438	1438	1438	
5°	1424	1428	1434	1436	1436	135
15°	1352	1356	1366	1370	1370	381
25°	1220	1224	1234	1248	1254	561
35°	1029	1035	1069	1107	1126	643
45°	803	819	881	961	995	620
55°	569	609	691	787	831	511
65°	352	396	481	573	607	354
75°	176	210	274	332	350	188
85°	46	56	68	72	66	53
90°	0	0	0	0	0	



TEST NUMBER: P220134

CATALOG NUMBER: Z3-WL-5L35-LD5-UNV-22

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1437.9	1437.9	1437.9	1437.9	1437.9
2.5°	1431.8	1433.8	1437.9	1441.9	1441.9
5°	1423.8	1427.8	1433.8	1435.9	1435.9
7.5°	1411.8	1415.8	1423.8	1425.8	1427.8
10°	1397.8	1399.8	1407.8	1411.8	1411.8
12.5°	1377.8	1381.8	1389.8	1393.8	1391.8
15°	1351.7	1355.7	1365.8	1369.8	1369.8
17.5°	1323.7	1327.7	1335.7	1341.7	1343.7
20°	1293.7	1295.7	1307.7	1311.7	1311.7
22.5°	1257.6	1263.6	1269.6	1281.7	1283.7
25°	1219.6	1223.6	1233.6	1247.6	1253.6
27.5°	1177.5	1179.5	1193.5	1215.6	1221.6
30°	1127.5	1135.5	1151.5	1179.5	1187.5
32.5°	1081.4	1087.4	1111.4	1143.5	1155.5
35°	1029.3	1035.3	1069.4	1107.4	1125.5
37.5°	973.3	981.3	1023.3	1069.4	1091.4
40°	921.2	931.2	977.3	1035.3	1061.4
42.5°	865.1	875.1	931.2	997.3	1029.3
45°	803.0	819.1	881.1	961.2	995.3
47.5°	745.0	765.0	835.1	923.2	963.2
50°	684.9	712.9	787.0	883.1	921.2
52.5°	630.8	656.8	739.0	837.1	877.1
55°	568.7	608.8	690.9	787.0	831.1
57.5°	514.7	550.7	636.8	739.0	777.0
60°	456.6	496.6	586.8	684.9	730.9
62.5°	406.5	444.6	536.7	630.8	668.9
65°	352.5	396.5	480.6	572.7	606.8
67.5°	312.4	342.4	430.6	516.7	546.7
70°	260.3	296.4	376.5	454.6	478.6
72.5°	214.3	252.3	326.4	394.5	416.5
75°	176.2	210.3	274.4	332.4	350.5
77.5°	142.2	170.2	226.3	266.3	270.3
80°	104.1	128.2	172.2	182.2	176.2
82.5°	74.1	90.1	114.1	120.2	114.1
85°	46.1	56.1	68.1	72.1	66.1
87.5°	22.0	22.0	28.0	28.0	24.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)