

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: P220296

Luminaire Tested: **Z3-WN-2L35-LD5-UNV-24**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220296  
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-2L35-LD5-UNV-24  
Description: CLASS Z3 2X4 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: 3844.8 lumens  
Efficiency: N/A  
Efficacy: 126.1 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

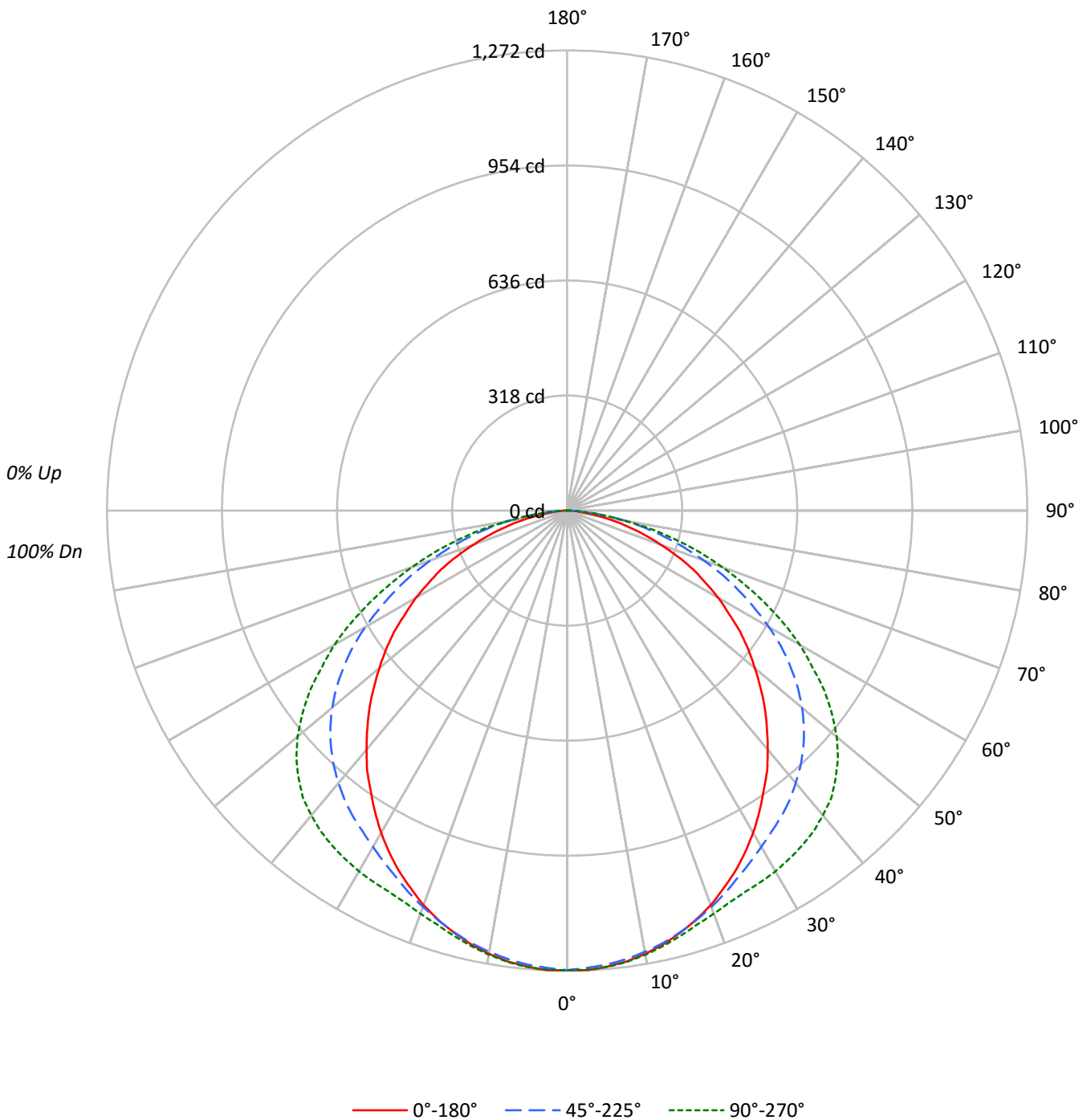
Input Watts (W): 30.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**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°	1709	1709	1709
5°	1709	1702	1710
10°	1699	1692	1703
15°	1683	1681	1694
20°	1662	1669	1698
25°	1633	1660	1727
30°	1597	1667	1789
35°	1554	1695	1858
40°	1515	1727	1932
45°	1470	1758	1997
50°	1418	1775	2036
55°	1369	1769	2036
60°	1300	1734	2001
65°	1222	1668	1917
70°	1083	1572	1796
75°	915	1438	1617
80°	707	1282	1241
85°	491	878	838



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.0	3.1
10°-20°	341.6	8.9
20°-30°	520.1	13.5
30°-40°	648.5	16.9
40°-50°	706.1	18.4
50°-60°	660.3	17.2
60°-70°	503.5	13.1
70°-80°	279.3	7.3
80°-90°	65.5	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°	981.6	25.5
0°-40°	1630.1	42.4
0°-60°	2996.5	77.9
0°-90°	3844.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3844.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1270	1270	1270	1270	1270	
5°	1265	1265	1260	1265	1266	120
15°	1208	1208	1207	1215	1216	341
25°	1100	1104	1118	1150	1163	506
35°	946	967	1032	1105	1131	593
45°	773	814	924	1018	1049	596
55°	584	640	754	842	868	520
65°	384	434	524	586	602	377
75°	176	224	277	308	311	190
85°	32	54	57	57	54	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1270.4	1270.4	1270.4	1270.4	1270.4
2.5°	1271.7	1269.1	1265.1	1269.1	1270.4
5°	1265.1	1265.1	1259.8	1265.1	1266.4
7.5°	1257.2	1255.8	1250.5	1257.2	1258.5
10°	1243.9	1242.6	1238.6	1243.9	1246.6
12.5°	1228.0	1226.7	1224.1	1232.0	1232.0
15°	1208.2	1208.2	1206.9	1214.8	1216.1
17.5°	1185.7	1185.7	1187.0	1196.3	1198.9
20°	1160.6	1160.6	1165.8	1180.4	1185.7
22.5°	1130.1	1132.8	1143.3	1163.2	1172.5
25°	1099.7	1103.6	1118.2	1150.0	1163.2
27.5°	1065.3	1071.9	1095.7	1139.4	1157.9
30°	1028.2	1037.5	1073.2	1130.1	1151.3
32.5°	988.5	1001.8	1052.0	1118.2	1142.0
35°	946.2	967.3	1032.2	1105.0	1131.4
37.5°	907.8	929.0	1009.7	1089.1	1118.2
40°	862.8	889.3	983.2	1070.6	1099.7
42.5°	817.8	853.5	955.4	1046.7	1079.8
45°	772.8	813.8	923.7	1017.6	1049.4
47.5°	725.2	771.5	887.9	983.2	1015.0
50°	677.5	731.8	848.2	943.5	972.6
52.5°	631.2	688.1	803.3	895.9	922.4
55°	583.6	640.5	754.3	841.6	868.1
57.5°	529.3	596.8	702.7	782.1	803.3
60°	483.0	541.2	644.5	718.6	743.7
62.5°	430.1	491.0	583.6	656.4	674.9
65°	383.8	434.0	524.0	586.2	602.1
67.5°	329.5	381.1	464.5	516.1	528.0
70°	275.3	326.9	399.6	448.6	456.5
72.5°	226.3	275.3	338.8	378.5	385.1
75°	176.0	223.6	276.6	308.3	311.0
77.5°	133.7	176.0	218.3	240.8	242.2
80°	91.3	128.4	165.4	168.1	160.1
82.5°	58.2	88.7	107.2	103.2	103.2
85°	31.8	54.3	56.9	56.9	54.3
87.5°	13.2	21.2	21.2	19.8	19.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)