

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: P220175

Luminaire Tested: **Z3-WD-6L40-LD5-UNV-22**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220175  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35859)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: Z3-WD-6L40-LD5-UNV-22  
Description: CLASS Z3 2X2 RECESSED LED LUMIANIRE  
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY  
Light Source: (112) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4254.1 lumens  
Efficiency: N/A  
Efficacy: 106.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.4 / 1.45  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

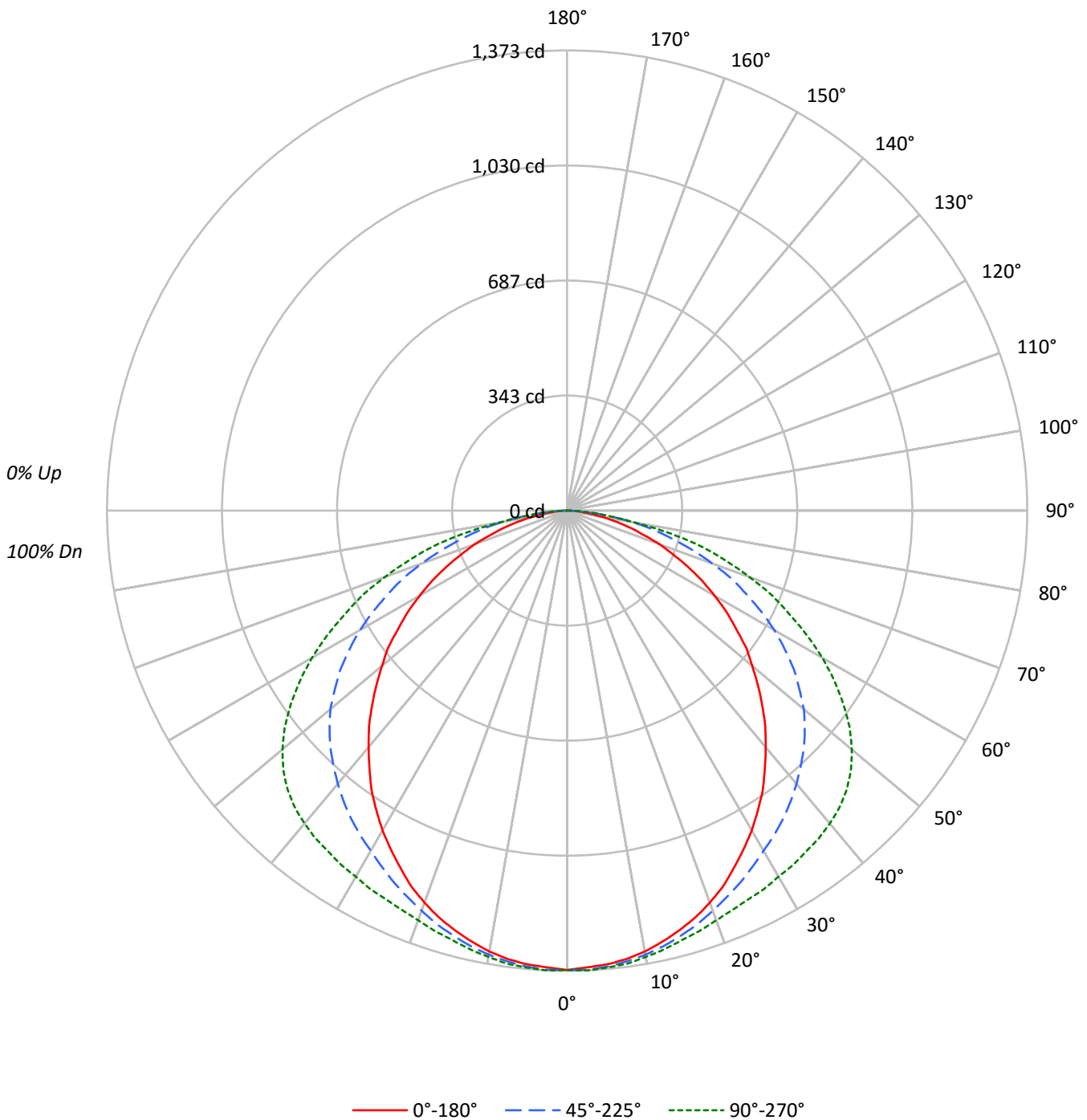
Input Watts (W): 39.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P220175

CATALOG NUMBER: Z3-WD-6L40-LD5-UNV-22

### Luminous Intensity Polar Plot





TEST NUMBER: P220175

CATALOG NUMBER: Z3-WD-6L40-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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	93	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	50	48
5	75	61	52	45	72	60	52	45	58	50	45	56	49	44	54	48	44	41
6	69	55	46	39	67	54	45	39	52	45	39	51	44	38	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23

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

	0°	45°	90°
0°	3689	3689	3689
5°	3672	3691	3697
10°	3650	3676	3695
15°	3611	3657	3696
20°	3564	3638	3725
25°	3494	3633	3800
30°	3424	3642	3918
35°	3343	3689	4081
40°	3238	3739	4282
45°	3134	3802	4487
50°	3017	3859	4643
55°	2887	3875	4720
60°	2732	3841	4735
65°	2532	3754	4663
70°	2301	3626	4547
75°	1994	3381	4329
80°	1559	3045	3154
85°	1155	2093	2238



TEST NUMBER: P220175

CATALOG NUMBER: Z3-WD-6L40-LD5-UNV-22

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.7	3.0
10°-20°	370.6	8.7
20°-30°	566.0	13.3
30°-40°	704.9	16.6
40°-50°	770.7	18.1
50°-60°	730.9	17.2
60°-70°	572.6	13.5
70°-80°	331.1	7.8
80°-90°	77.6	1.8
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°	1066.2	25.1
0°-40°	1771.1	41.6
0°-60°	3272.8	76.9
0°-90°	4254.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4254.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1371	1371	1371	1371	1371	
5°	1359	1362	1366	1369	1369	129
15°	1296	1301	1312	1324	1326	366
25°	1177	1188	1224	1263	1280	542
35°	1018	1041	1123	1210	1242	635
45°	824	873	999	1128	1179	635
55°	615	690	826	957	1006	551
65°	398	468	590	695	732	394
75°	192	243	325	388	416	203
85°	37	54	68	72	72	46
90°	0	0	0	0	0	



TEST NUMBER: P220175

CATALOG NUMBER: Z3-WD-6L40-LD5-UNV-22

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1371.0	1371.0	1371.0	1371.0	1371.0
2.5°	1364.0	1366.3	1371.0	1373.3	1373.3
5°	1359.3	1361.6	1366.3	1368.7	1368.7
7.5°	1349.9	1352.3	1357.0	1361.6	1364.0
10°	1335.9	1338.2	1345.3	1352.3	1352.3
12.5°	1317.2	1321.9	1331.2	1338.2	1340.6
15°	1296.1	1300.8	1312.5	1324.2	1326.5
17.5°	1272.7	1279.7	1293.8	1307.8	1314.8
20°	1244.7	1249.3	1270.4	1291.4	1300.8
22.5°	1214.2	1221.3	1247.0	1277.4	1289.1
25°	1176.8	1188.5	1223.6	1263.4	1279.7
27.5°	1139.4	1155.7	1197.9	1251.7	1272.7
30°	1101.9	1118.3	1172.1	1237.6	1261.0
32.5°	1059.8	1080.9	1148.7	1223.6	1254.0
35°	1017.7	1041.1	1123.0	1209.6	1242.3
37.5°	968.6	999.0	1094.9	1193.2	1233.0
40°	921.8	954.5	1064.5	1174.5	1218.9
42.5°	875.0	912.4	1031.8	1153.4	1202.5
45°	823.5	872.7	999.0	1127.7	1179.1
47.5°	772.1	828.2	961.6	1097.3	1148.7
50°	720.6	779.1	921.8	1059.8	1109.0
52.5°	673.8	732.3	872.7	1010.7	1062.2
55°	615.3	690.2	825.9	956.9	1006.0
57.5°	563.8	631.7	769.7	898.4	945.2
60°	507.7	575.5	713.6	835.2	879.7
62.5°	453.9	519.4	652.7	767.4	807.2
65°	397.7	467.9	589.6	694.9	732.3
67.5°	341.6	407.1	531.1	622.3	662.1
70°	292.4	353.3	460.9	545.1	577.9
72.5°	236.3	294.8	393.0	467.9	496.0
75°	191.8	243.3	325.2	388.4	416.4
77.5°	145.1	194.2	262.0	304.1	315.8
80°	100.6	142.7	196.5	212.9	203.5
82.5°	65.5	98.3	126.3	131.0	128.7
85°	37.4	53.8	67.8	72.5	72.5
87.5°	16.4	21.1	23.4	23.4	23.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)