

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: P220179

Luminaire Tested: **Z3-WN-5L30-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220179
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35860)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WN-5L30-LD5-UNV-22
Description: CLASS Z3 2X2 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY
Light Source: (84) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3737.2 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

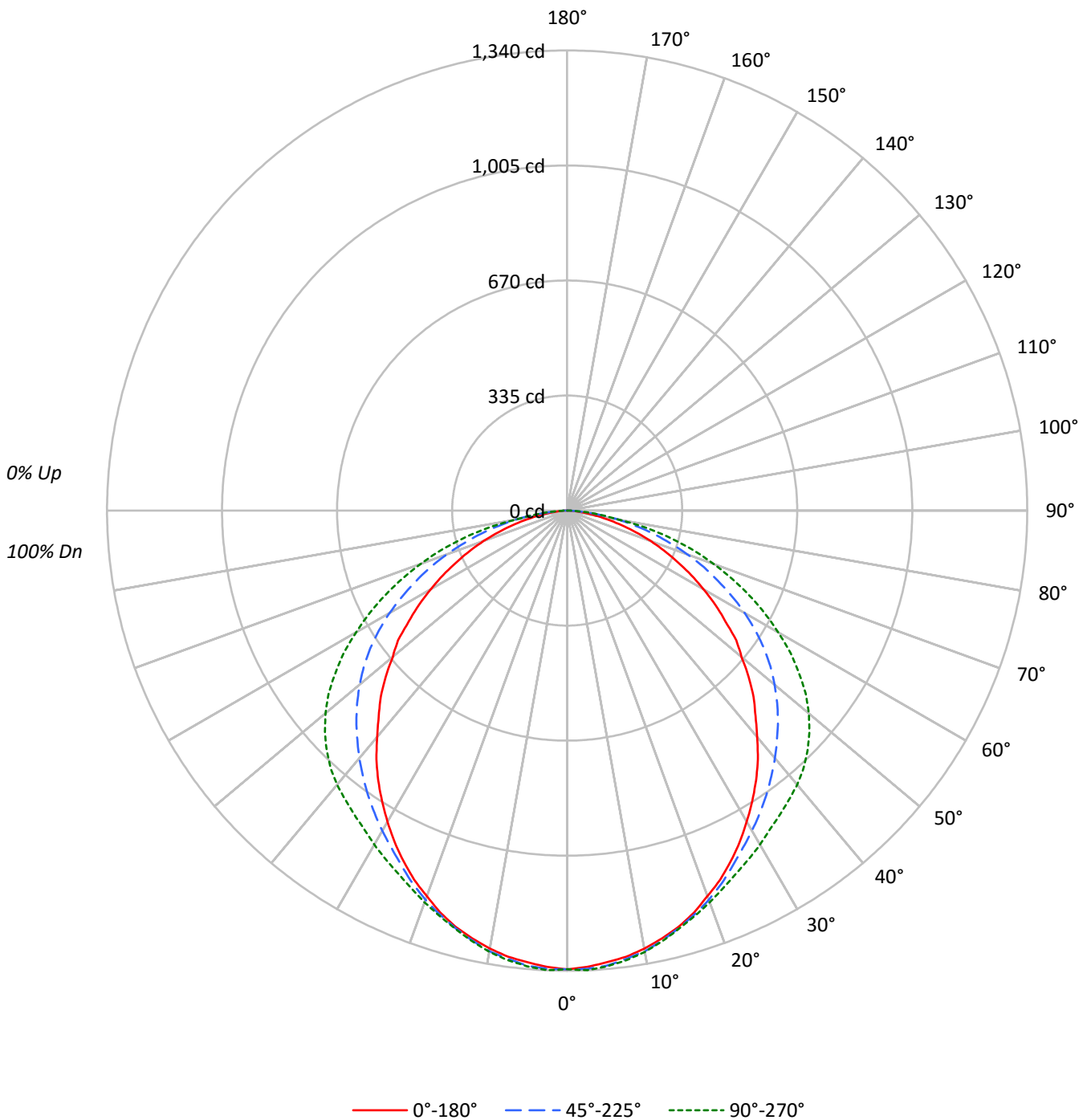
Input Watts (W): 35.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P220179

CATALOG NUMBER: Z3-WN-5L30-LD5-UNV-22

Luminous Intensity Polar Plot





TEST NUMBER: P220179

CATALOG NUMBER: Z3-WN-5L30-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	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3595	3595	3595
5°	3567	3593	3598
10°	3539	3560	3566
15°	3495	3506	3511
20°	3421	3454	3477
25°	3346	3387	3461
30°	3250	3346	3490
35°	3150	3322	3550
40°	3022	3307	3660
45°	2921	3303	3767
50°	2776	3302	3844
55°	2639	3283	3864
60°	2466	3215	3818
65°	2265	3089	3730
70°	2038	2936	3574
75°	1708	2693	3276
80°	1319	2366	2397
85°	954	1612	1732



TEST NUMBER: P220179

CATALOG NUMBER: Z3-WN-5L30-LD5-UNV-22

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.9	3.4
10°-20°	354.8	9.5
20°-30°	527.7	14.1
30°-40°	635.6	17.0
40°-50°	673.1	18.0
50°-60°	622.3	16.7
60°-70°	474.0	12.7
70°-80°	263.8	7.1
80°-90°	60.1	1.6
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°	1008.4	27.0
0°-40°	1643.9	44.0
0°-60°	2939.3	78.7
0°-90°	3737.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3737.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1336	1336	1336	1336	1336	
5°	1320	1324	1330	1332	1332	125
15°	1255	1257	1258	1260	1260	353
25°	1127	1129	1141	1156	1166	519
35°	959	968	1011	1061	1081	599
45°	768	791	868	955	990	590
55°	563	609	700	791	824	504
65°	356	402	485	559	586	353
75°	164	201	259	302	315	176
85°	31	42	52	56	56	38
90°	0	0	0	0	0	



TEST NUMBER: P220179

CATALOG NUMBER: Z3-WN-5L30-LD5-UNV-22

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1335.8	1335.8	1335.8	1335.8	1335.8
2.5°	1330.0	1332.0	1335.8	1339.7	1339.7
5°	1320.4	1324.2	1330.0	1332.0	1332.0
7.5°	1310.7	1312.6	1316.5	1320.4	1320.4
10°	1295.2	1297.2	1303.0	1304.9	1304.9
12.5°	1275.9	1277.8	1281.7	1283.6	1283.6
15°	1254.6	1256.6	1258.5	1260.4	1260.4
17.5°	1227.6	1229.5	1233.4	1237.2	1237.2
20°	1194.7	1200.5	1206.3	1210.2	1214.0
22.5°	1163.8	1165.7	1175.4	1185.0	1188.9
25°	1127.0	1129.0	1140.6	1156.0	1165.7
27.5°	1088.4	1094.2	1107.7	1134.8	1144.4
30°	1045.9	1053.6	1076.8	1109.6	1123.2
32.5°	1003.3	1011.1	1043.9	1084.5	1100.0
35°	958.9	968.5	1011.1	1061.3	1080.6
37.5°	912.5	924.1	976.3	1036.2	1061.3
40°	860.3	879.6	941.5	1011.1	1042.0
42.5°	811.9	835.1	904.7	984.0	1018.8
45°	767.5	790.7	868.0	955.0	989.8
47.5°	717.2	746.2	829.3	922.1	956.9
50°	663.1	699.8	788.7	883.5	918.3
52.5°	620.6	653.4	746.2	840.9	875.7
55°	562.6	609.0	699.8	790.7	823.5
57.5°	512.3	554.8	649.5	738.5	771.3
60°	458.2	502.6	597.4	680.5	709.5
62.5°	407.9	450.4	541.3	622.5	649.5
65°	355.7	402.1	485.2	558.7	585.8
67.5°	305.4	349.9	431.1	498.8	520.0
70°	259.0	297.7	373.1	429.2	454.3
72.5°	208.8	247.4	313.2	365.4	386.6
75°	164.3	201.1	259.0	301.6	315.1
77.5°	121.8	156.6	203.0	235.8	241.6
80°	85.1	114.1	152.7	158.5	154.7
82.5°	54.1	75.4	96.7	98.6	98.6
85°	30.9	42.5	52.2	56.1	56.1
87.5°	11.6	15.5	19.3	19.3	19.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)