

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: P220026

Luminaire Tested: **Z3-WG-3L40-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220026
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35874)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WG-3L40-LD5-UNV-14
Description: CLASS Z3 1X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3825.2 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

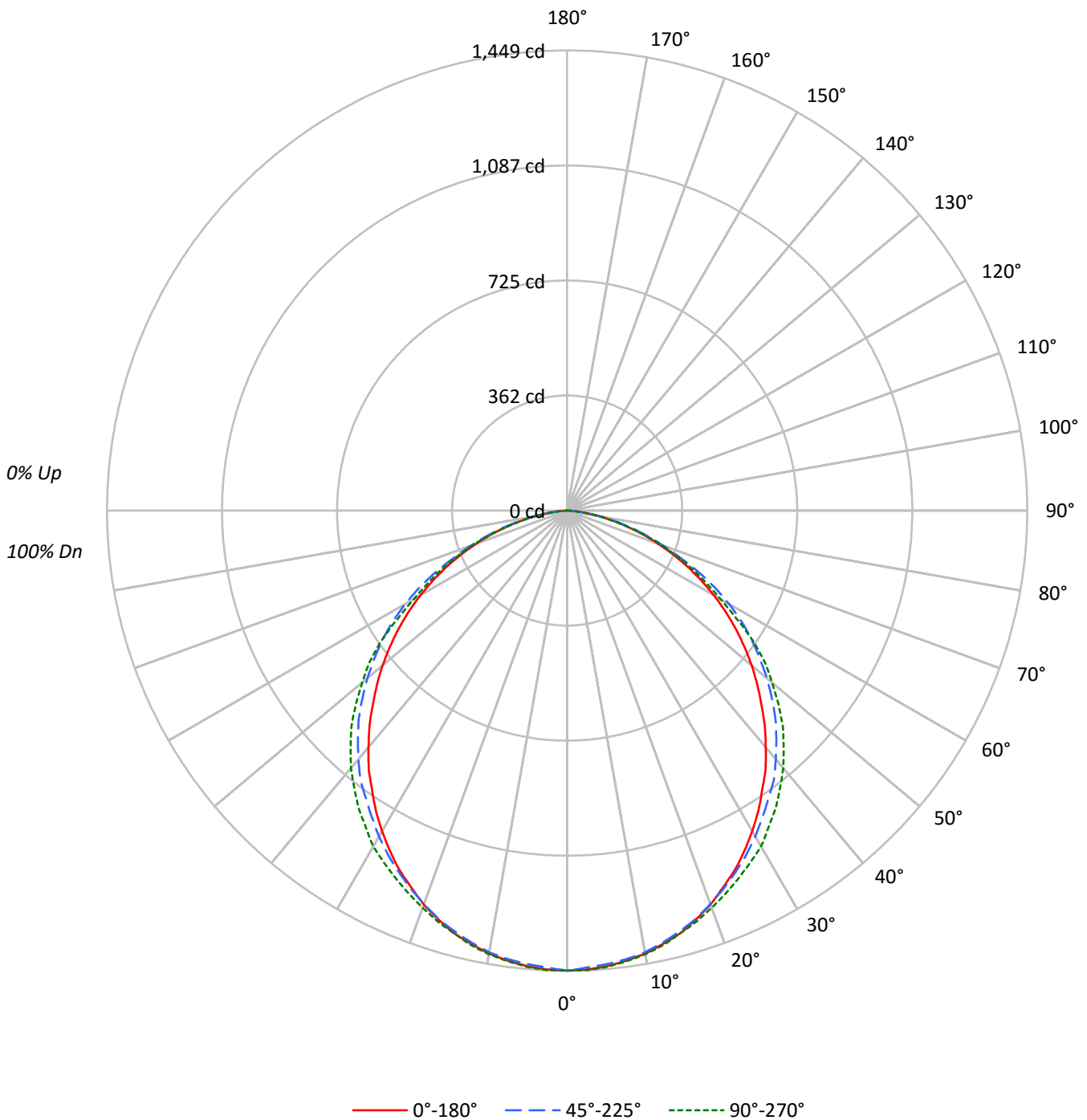
Input Watts (W): 33.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P220026

CATALOG NUMBER: Z3-WG-3L40-LD5-UNV-14

Luminous Intensity Polar Plot





TEST NUMBER: P220026

CATALOG NUMBER: Z3-WG-3L40-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	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	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	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3898	3898	3898
5°	3890	3873	3895
10°	3870	3859	3876
15°	3839	3821	3839
20°	3780	3774	3811
25°	3709	3728	3792
30°	3622	3682	3795
35°	3520	3632	3759
40°	3418	3590	3719
45°	3295	3531	3653
50°	3176	3436	3525
55°	3036	3328	3348
60°	2872	3172	2998
65°	2661	2893	2770
70°	2394	2529	2462
75°	2027	2162	2049
80°	1595	1660	1528
85°	1059	991	794



TEST NUMBER: P220026

CATALOG NUMBER: Z3-WG-3L40-LD5-UNV-14

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.6	3.6
10°-20°	388.1	10.1
20°-30°	580.9	15.2
30°-40°	693.3	18.1
40°-50°	708.1	18.5
50°-60°	620.3	16.2
60°-70°	436.0	11.4
70°-80°	219.0	5.7
80°-90°	43.0	1.1
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°	1105.7	28.9
0°-40°	1798.9	47.0
0°-60°	3127.3	81.8
0°-90°	3825.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3825.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1449	1449	1449	1449	1449	
5°	1440	1440	1434	1442	1442	137
15°	1378	1376	1371	1380	1378	388
25°	1249	1251	1256	1273	1277	575
35°	1071	1080	1106	1136	1144	671
45°	866	883	928	954	960	669
55°	647	679	709	720	714	578
65°	418	444	454	437	435	414
75°	195	214	208	201	197	209
85°	34	36	32	28	26	44
90°	0	0	0	0	0	



TEST NUMBER: P220026

CATALOG NUMBER: Z3-WG-3L40-LD5-UNV-14

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1448.6	1448.6	1448.6	1448.6	1448.6
2.5°	1446.4	1446.4	1440.0	1448.6	1448.6
5°	1440.0	1440.0	1433.6	1442.1	1442.1
7.5°	1429.3	1429.3	1425.0	1431.4	1431.4
10°	1416.4	1416.4	1412.1	1418.6	1418.6
12.5°	1397.1	1397.1	1392.9	1399.3	1401.4
15°	1377.9	1375.7	1371.4	1380.0	1377.9
17.5°	1350.0	1350.0	1347.9	1356.4	1356.4
20°	1320.0	1322.1	1317.9	1328.6	1330.7
22.5°	1283.6	1285.7	1287.9	1300.7	1305.0
25°	1249.3	1251.4	1255.7	1272.9	1277.1
27.5°	1208.6	1212.9	1221.4	1240.7	1249.3
30°	1165.7	1172.1	1185.0	1210.7	1221.4
32.5°	1120.7	1129.3	1144.3	1176.4	1180.7
35°	1071.4	1080.0	1105.7	1135.7	1144.3
37.5°	1026.4	1035.0	1069.3	1095.0	1101.4
40°	972.9	985.7	1022.1	1050.0	1058.6
42.5°	921.4	934.3	975.0	1002.9	1009.3
45°	865.7	882.9	927.9	953.6	960.0
47.5°	812.1	831.4	874.3	897.9	902.1
50°	758.6	780.0	820.7	844.3	842.1
52.5°	702.9	726.4	765.0	784.3	784.3
55°	647.1	679.3	709.3	720.0	713.6
57.5°	591.4	619.3	651.4	651.4	632.1
60°	533.6	561.4	589.3	572.1	557.1
62.5°	475.7	503.6	522.9	497.1	492.9
65°	417.9	443.6	454.3	437.1	435.0
67.5°	360.0	385.7	381.4	379.3	370.7
70°	304.3	327.9	321.4	317.1	312.9
72.5°	250.7	272.1	263.6	257.1	255.0
75°	195.0	214.3	207.9	201.4	197.1
77.5°	145.7	158.6	156.4	150.0	145.7
80°	102.9	111.4	107.1	102.9	98.6
82.5°	62.1	70.7	66.4	60.0	57.9
85°	34.3	36.4	32.1	27.9	25.7
87.5°	12.9	10.7	8.6	8.6	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)