

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: P220264

Luminaire Tested: **Z3-WG-3L30-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220264
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35866)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WG-3L30-LD5-UNV-24
Description: CLASS Z3 2X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4661.3 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.44 / 1.48
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

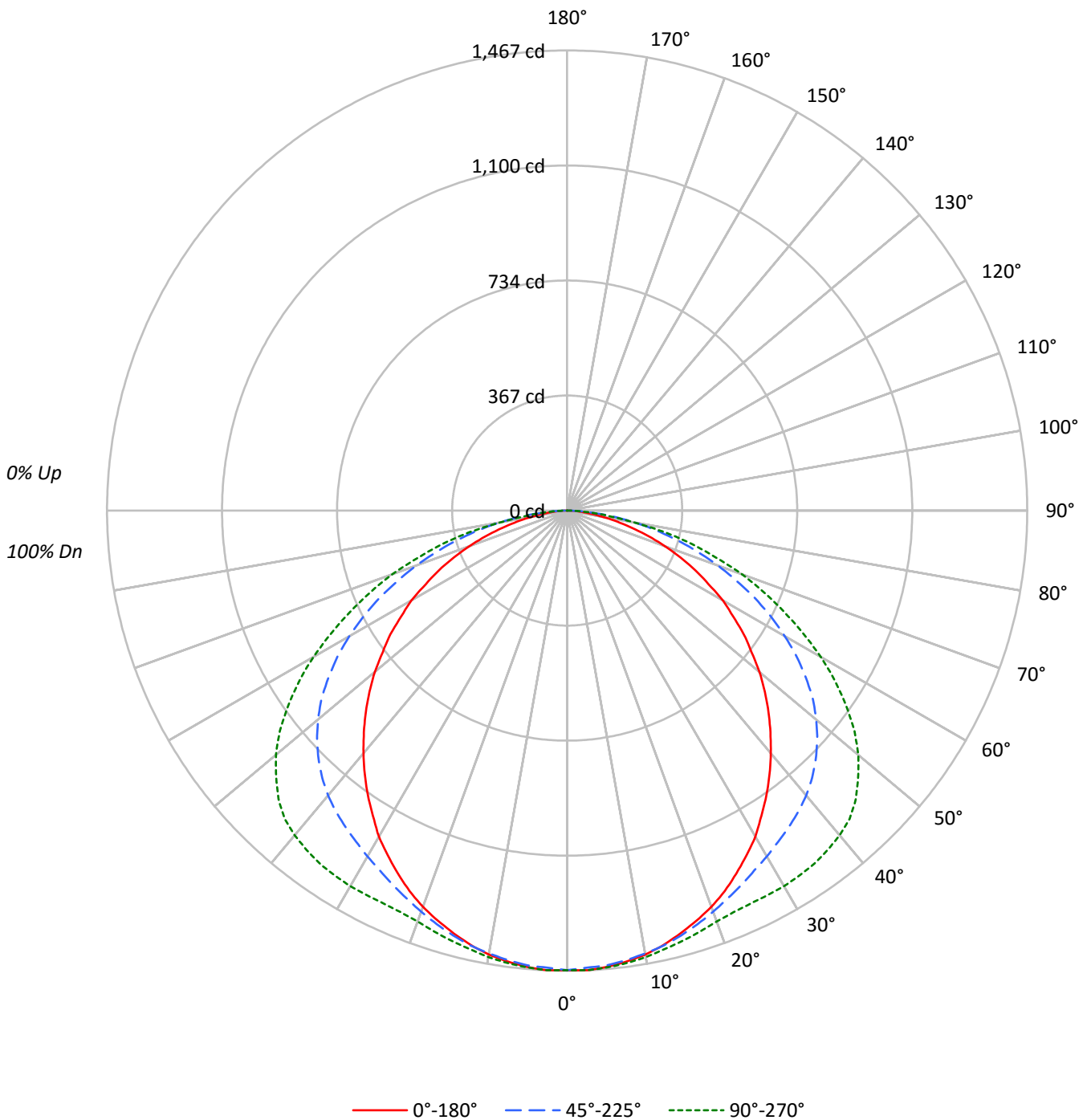
Input Watts (W): 40.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P220264

CATALOG NUMBER: Z3-WG-3L30-LD5-UNV-24

Luminous Intensity Polar Plot





TEST NUMBER: P220264

CATALOG NUMBER: Z3-WG-3L30-LD5-UNV-24

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	90	93	90	88	89	87	85	83
2	98	90	82	77	95	88	81	76	84	79	74	81	76	72	78	74	70	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	52	65	58	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	49	43	38	36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31
8	59	45	36	30	57	44	36	30	43	36	30	42	35	30	41	34	30	28
9	55	41	33	27	54	41	33	27	40	32	27	38	32	27	37	31	27	25
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1971	1971	1971
5°	1972	1965	1974
10°	1963	1959	1975
15°	1944	1953	1979
20°	1925	1949	1996
25°	1895	1954	2052
30°	1865	1978	2148
35°	1820	2024	2257
40°	1775	2083	2373
45°	1728	2133	2476
50°	1675	2170	2537
55°	1614	2180	2549
60°	1544	2158	2514
65°	1437	2101	2427
70°	1301	2010	2329
75°	1109	1874	2141
80°	897	1691	1653
85°	613	1200	1175



TEST NUMBER: P220264

CATALOG NUMBER: Z3-WG-3L30-LD5-UNV-24

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.6	3.0
10°-20°	397.1	8.5
20°-30°	611.6	13.1
30°-40°	774.3	16.6
40°-50°	856.0	18.4
50°-60°	810.8	17.4
60°-70°	628.1	13.5
70°-80°	357.9	7.7
80°-90°	86.7	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°	1147.3	24.6
0°-40°	1921.7	41.2
0°-60°	3588.5	77.0
0°-90°	4661.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4661.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1465	1465	1465	1465	1465	
5°	1460	1458	1455	1460	1462	139
15°	1396	1399	1402	1416	1420	394
25°	1277	1287	1316	1364	1382	588
35°	1108	1136	1232	1336	1374	693
45°	908	966	1121	1254	1301	700
55°	688	771	929	1048	1086	613
65°	452	531	660	744	762	446
75°	213	281	360	400	412	230
85°	40	73	78	76	76	51
90°	0	0	0	0	0	



TEST NUMBER: P220264

CATALOG NUMBER: Z3-WG-3L30-LD5-UNV-24

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1465.2	1465.2	1465.2	1465.2	1465.2
2.5°	1466.8	1463.5	1458.5	1465.2	1466.8
5°	1460.2	1458.5	1455.2	1460.2	1461.9
7.5°	1450.3	1448.6	1445.3	1453.6	1455.2
10°	1437.0	1437.0	1433.7	1442.0	1445.3
12.5°	1418.9	1420.5	1420.5	1428.8	1432.1
15°	1395.7	1399.0	1402.3	1415.5	1420.5
17.5°	1370.9	1375.9	1382.5	1399.0	1407.3
20°	1344.4	1347.7	1361.0	1385.8	1394.0
22.5°	1313.0	1318.0	1337.8	1372.6	1385.8
25°	1276.6	1286.6	1316.3	1364.3	1382.5
27.5°	1238.6	1250.2	1293.2	1356.0	1382.5
30°	1200.6	1213.8	1273.3	1351.1	1382.5
32.5°	1152.6	1175.8	1251.8	1346.1	1379.2
35°	1108.0	1136.1	1232.0	1336.2	1374.2
37.5°	1060.0	1094.7	1210.5	1322.9	1364.3
40°	1010.4	1053.4	1185.7	1306.4	1351.1
42.5°	959.1	1010.4	1155.9	1284.9	1332.9
45°	907.9	965.7	1121.2	1253.5	1301.4
47.5°	855.0	919.4	1081.5	1215.5	1258.4
50°	800.4	871.5	1036.9	1169.1	1212.1
52.5°	740.8	823.5	987.2	1112.9	1154.3
55°	687.9	770.6	929.4	1048.4	1086.5
57.5°	626.7	719.3	868.2	982.3	1013.7
60°	573.8	654.9	802.0	906.2	934.3
62.5°	507.7	600.3	732.6	826.8	848.3
65°	451.5	530.8	659.8	744.2	762.3
67.5°	390.3	468.0	583.7	658.2	678.0
70°	330.7	401.8	511.0	570.5	592.0
72.5°	272.9	340.7	434.9	486.2	496.1
75°	213.3	281.1	360.5	400.2	411.8
77.5°	163.7	219.9	289.4	320.8	319.2
80°	115.8	165.4	218.3	223.2	213.3
82.5°	74.4	117.4	147.2	135.6	135.6
85°	39.7	72.8	77.7	76.1	76.1
87.5°	14.9	26.5	26.5	26.5	26.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)