

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: P220143

Luminaire Tested: **Z3-WG-3L30-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220143
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35858)
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-22
Description: CLASS Z3 2X2 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY
Light Source: (84) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2727.1 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.34 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

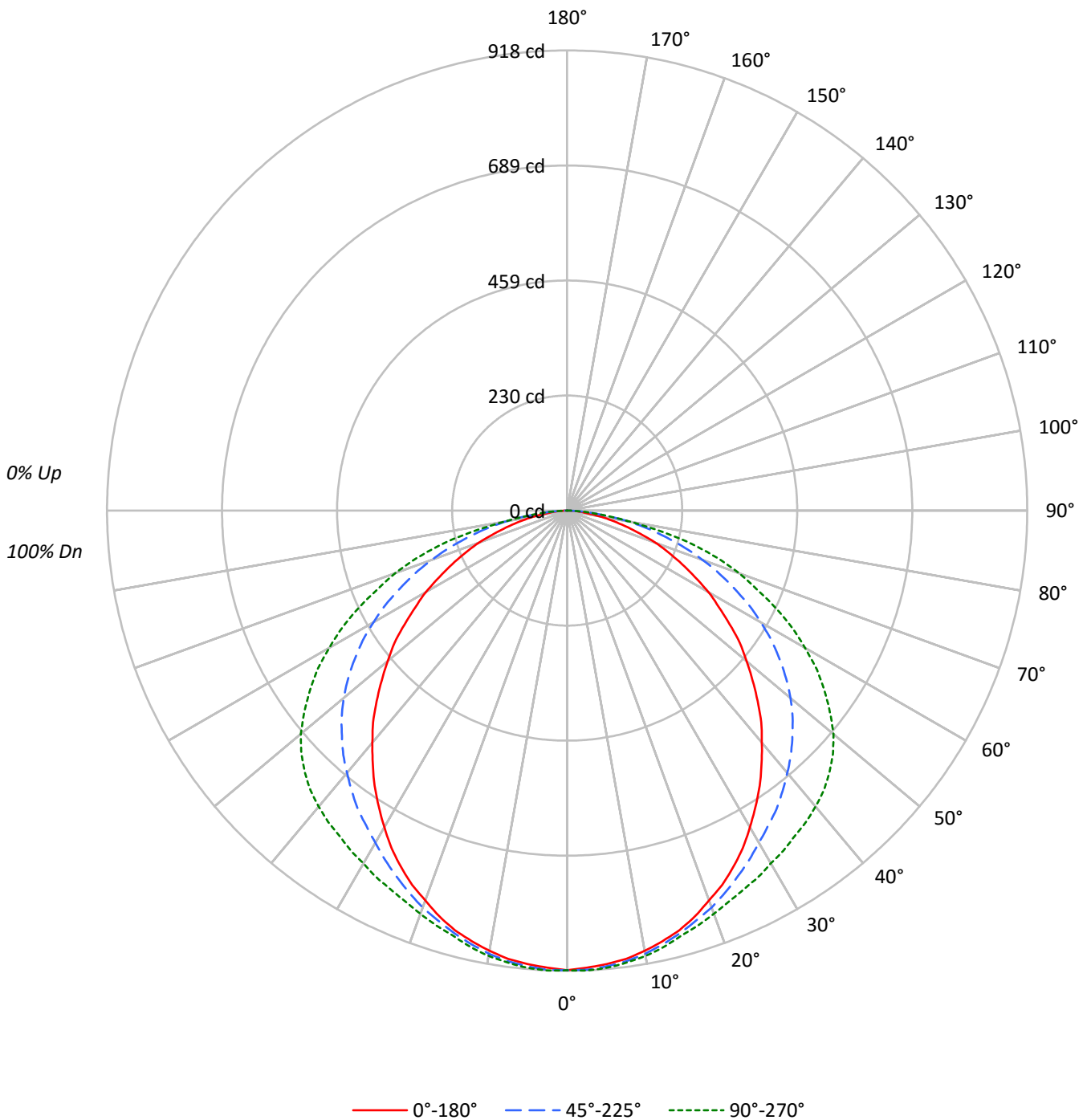
Input Watts (W): 25.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P220143

CATALOG NUMBER: Z3-WG-3L30-LD5-UNV-22

Luminous Intensity Polar Plot





TEST NUMBER: P220143

CATALOG NUMBER: Z3-WG-3L30-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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	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	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	55	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	40	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	29
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26
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°	2468	2468	2468
5°	2453	2465	2473
10°	2437	2453	2465
15°	2414	2430	2447
20°	2370	2413	2451
25°	2329	2391	2475
30°	2266	2378	2526
35°	2201	2391	2601
40°	2123	2400	2709
45°	2045	2419	2815
50°	1957	2437	2904
55°	1858	2430	2940
60°	1755	2404	2948
65°	1612	2341	2919
70°	1476	2260	2869
75°	1238	2120	2677
80°	1015	1892	1937
85°	735	1288	1288



TEST NUMBER: P220143

CATALOG NUMBER: Z3-WG-3L30-LD5-UNV-22

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.6	3.2
10°-20°	246.2	9.0
20°-30°	372.5	13.7
30°-40°	456.4	16.7
40°-50°	491.2	18.0
50°-60°	460.4	16.9
60°-70°	358.7	13.2
70°-80°	207.4	7.6
80°-90°	47.7	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°	705.3	25.9
0°-40°	1161.7	42.6
0°-60°	2113.3	77.5
0°-90°	2727.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2727.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	917	917	917	917	917	
5°	908	910	912	914	916	86
15°	866	866	872	878	878	244
25°	784	789	805	825	834	361
35°	670	683	728	774	792	418
45°	537	563	636	710	740	414
55°	396	439	518	598	627	355
65°	253	296	368	435	458	251
75°	119	155	204	243	258	129
85°	24	36	42	43	42	30
90°	0	0	0	0	0	



TEST NUMBER: P220143

CATALOG NUMBER: Z3-WG-3L30-LD5-UNV-22

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	917.0	917.0	917.0	917.0	917.0
2.5°	912.5	914.0	917.0	918.5	918.5
5°	908.1	909.5	912.5	914.0	915.5
7.5°	902.1	903.6	906.6	909.5	909.5
10°	891.7	893.2	897.6	900.6	902.1
12.5°	879.8	881.3	885.7	888.7	891.7
15°	866.4	866.4	872.3	878.3	878.3
17.5°	848.5	851.5	857.4	864.9	867.9
20°	827.7	832.1	842.6	851.5	856.0
22.5°	808.3	812.8	824.7	838.1	844.0
25°	784.5	789.0	805.3	824.7	833.6
27.5°	759.2	766.6	786.0	814.3	824.7
30°	729.4	738.4	765.2	800.9	812.8
32.5°	699.7	711.6	745.8	789.0	803.9
35°	669.9	683.3	727.9	774.1	791.9
37.5°	637.1	653.5	705.6	760.7	783.0
40°	604.4	622.2	683.3	745.8	771.1
42.5°	573.1	595.4	660.9	727.9	757.7
45°	537.4	562.7	635.6	710.1	739.8
47.5°	501.7	532.9	610.3	687.7	719.0
50°	467.4	500.2	582.1	662.4	693.7
52.5°	434.7	468.9	550.8	631.2	660.9
55°	396.0	439.1	518.0	598.4	626.7
57.5°	358.8	401.9	483.8	559.7	591.0
60°	326.0	363.2	446.6	519.5	547.8
62.5°	287.3	327.5	409.4	477.8	506.1
65°	253.1	296.2	367.7	434.7	458.5
67.5°	218.8	256.0	329.0	387.0	409.4
70°	187.6	221.8	287.3	340.9	364.7
72.5°	151.8	187.6	245.6	291.8	314.1
75°	119.1	154.8	203.9	242.6	257.5
77.5°	90.8	122.1	163.7	190.5	193.5
80°	65.5	89.3	122.1	129.5	125.0
82.5°	41.7	61.0	77.4	78.9	78.9
85°	23.8	35.7	41.7	43.2	41.7
87.5°	10.4	13.4	13.4	13.4	13.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)