

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: P220017

Luminaire Tested: **Z3-WG-4L30-LD5-UNV-14**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220017  
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-4L30-LD5-UNV-14  
Description: CLASS Z3 1X4 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: 4463.7 lumens  
Efficiency: N/A  
Efficacy: 103.1 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

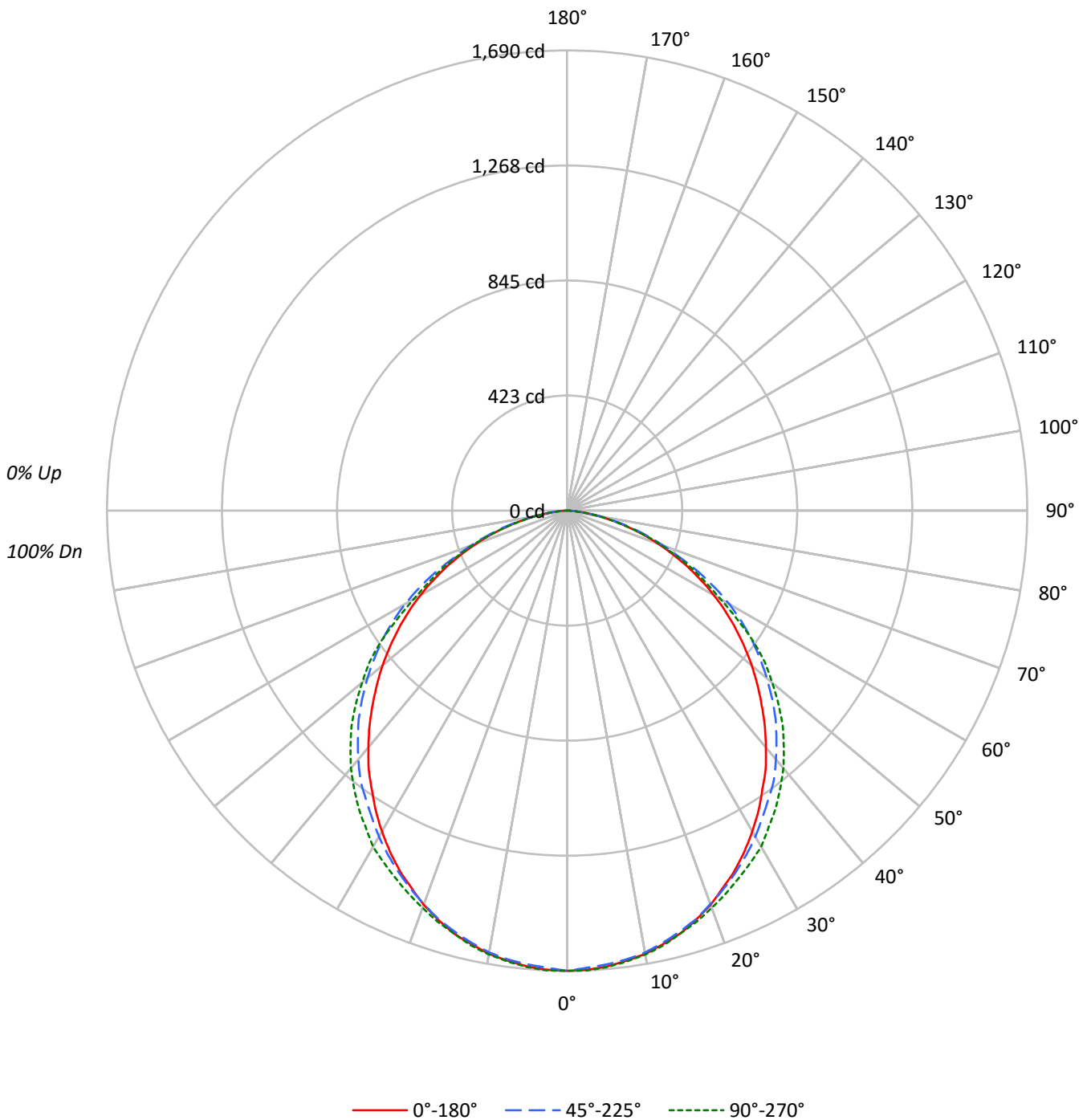
Input Watts (W): 43.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**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°	4549	4549	4549
5°	4539	4519	4546
10°	4516	4503	4523
15°	4479	4458	4479
20°	4411	4404	4447
25°	4328	4351	4425
30°	4227	4297	4429
35°	4107	4239	4387
40°	3988	4190	4339
45°	3844	4120	4263
50°	3706	4009	4114
55°	3543	3883	3907
60°	3351	3701	3499
65°	3105	3375	3232
70°	2794	2951	2873
75°	2365	2521	2391
80°	1860	1937	1782
85°	1235	1158	926



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.4	3.6
10°-20°	452.9	10.1
20°-30°	677.9	15.2
30°-40°	809.0	18.1
40°-50°	826.3	18.5
50°-60°	723.8	16.2
60°-70°	508.7	11.4
70°-80°	255.5	5.7
80°-90°	50.1	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°	1290.2	28.9
0°-40°	2099.2	47.0
0°-60°	3649.3	81.8
0°-90°	4463.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4463.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1690	1690	1690	1690	1690	
5°	1680	1680	1673	1683	1683	159
15°	1608	1605	1600	1610	1608	453
25°	1458	1460	1465	1485	1490	671
35°	1250	1260	1290	1325	1335	783
45°	1010	1030	1083	1113	1120	780
55°	755	793	828	840	833	675
65°	488	518	530	510	508	483
75°	228	250	242	235	230	244
85°	40	42	38	32	30	51
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1690.3	1690.3	1690.3	1690.3	1690.3
2.5°	1687.8	1687.8	1680.3	1690.3	1690.3
5°	1680.3	1680.3	1672.8	1682.8	1682.8
7.5°	1667.8	1667.8	1662.8	1670.3	1670.3
10°	1652.8	1652.8	1647.8	1655.3	1655.3
12.5°	1630.3	1630.3	1625.3	1632.8	1635.3
15°	1607.8	1605.3	1600.3	1610.3	1607.8
17.5°	1575.3	1575.3	1572.8	1582.8	1582.8
20°	1540.3	1542.8	1537.8	1550.3	1552.8
22.5°	1497.8	1500.3	1502.8	1517.8	1522.8
25°	1457.8	1460.3	1465.3	1485.3	1490.3
27.5°	1410.3	1415.3	1425.3	1447.8	1457.8
30°	1360.3	1367.8	1382.8	1412.8	1425.3
32.5°	1307.8	1317.8	1335.3	1372.8	1377.8
35°	1250.3	1260.3	1290.3	1325.3	1335.3
37.5°	1197.7	1207.7	1247.8	1277.8	1285.3
40°	1135.2	1150.2	1192.7	1225.2	1235.3
42.5°	1075.2	1090.2	1137.7	1170.2	1177.7
45°	1010.2	1030.2	1082.7	1112.7	1120.2
47.5°	947.7	970.2	1020.2	1047.7	1052.7
50°	885.2	910.2	957.7	985.2	982.7
52.5°	820.2	847.7	892.7	915.2	915.2
55°	755.2	792.7	827.7	840.2	832.7
57.5°	690.1	722.6	760.2	760.2	737.6
60°	622.6	655.1	687.6	667.6	650.1
62.5°	555.1	587.6	610.1	580.1	575.1
65°	487.6	517.6	530.1	510.1	507.6
67.5°	420.1	450.1	445.1	442.6	432.6
70°	355.1	382.6	375.1	370.1	365.1
72.5°	292.6	317.6	307.6	300.1	297.6
75°	227.5	250.1	242.5	235.0	230.0
77.5°	170.0	185.0	182.5	175.0	170.0
80°	120.0	130.0	125.0	120.0	115.0
82.5°	72.5	82.5	77.5	70.0	67.5
85°	40.0	42.5	37.5	32.5	30.0
87.5°	15.0	12.5	10.0	10.0	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)