

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: P220045

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220045
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35876)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WN-4L30-LD5-UNV-14
Description: CLASS Z3 1X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4710.3 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

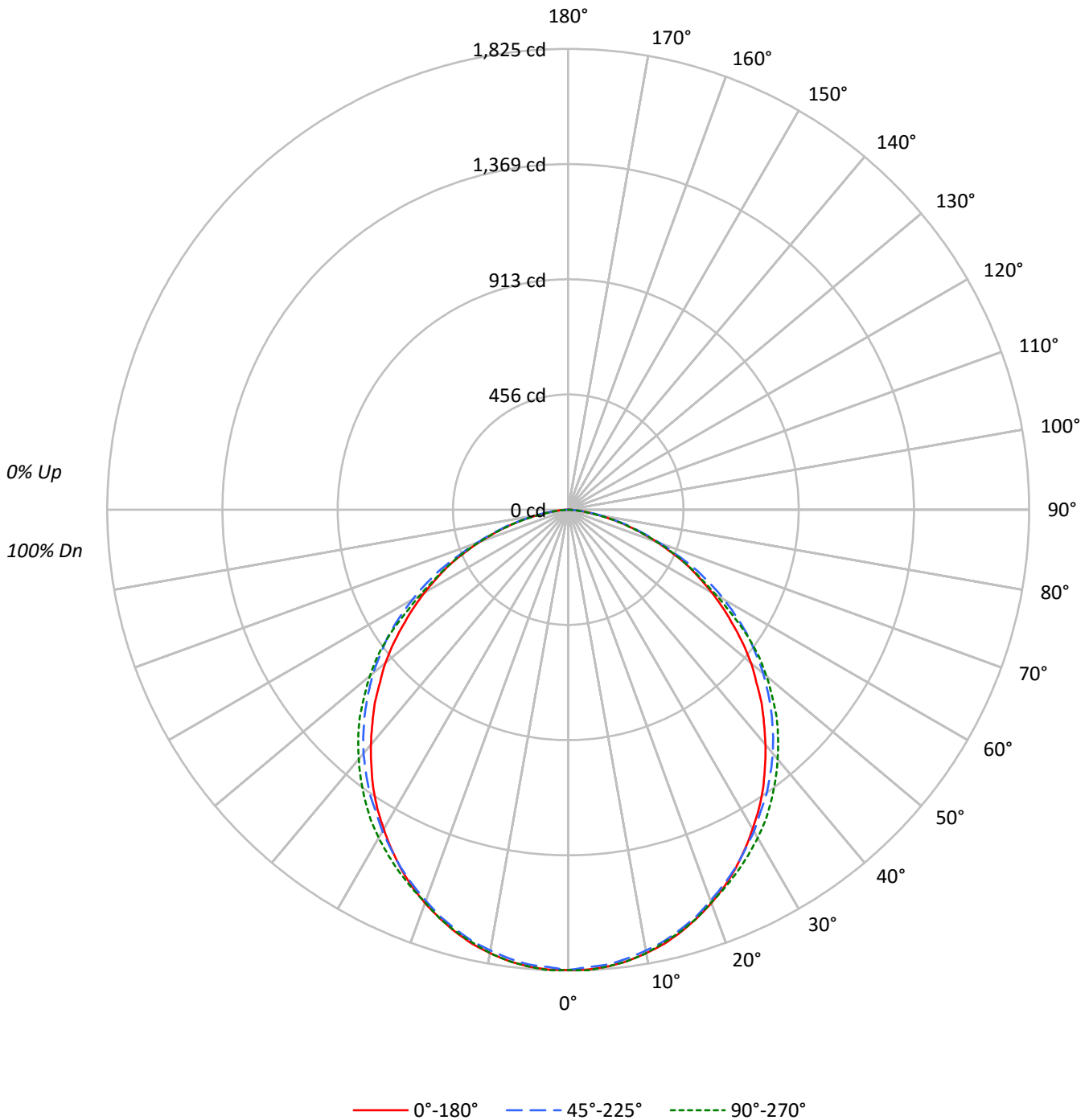
Input Watts (W): 43.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	64	56	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	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4905	4905	4905
5°	4904	4884	4904
10°	4872	4844	4872
15°	4821	4793	4814
20°	4747	4719	4740
25°	4655	4648	4700
30°	4538	4569	4662
35°	4419	4502	4608
40°	4269	4427	4533
45°	4120	4330	4444
50°	3957	4219	4292
55°	3742	4071	4047
60°	3539	3835	3633
65°	3312	3519	3328
70°	2932	3030	2951
75°	2469	2600	2469
80°	1898	1976	1782
85°	1158	1158	1003



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.0	3.7
10°-20°	486.8	10.3
20°-30°	724.1	15.4
30°-40°	857.8	18.2
40°-50°	870.5	18.5
50°-60°	757.6	16.1
60°-70°	529.5	11.2
70°-80°	261.6	5.6
80°-90°	50.4	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°	1382.9	29.4
0°-40°	2240.7	47.6
0°-60°	3868.8	82.1
0°-90°	4710.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4710.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1823	1823	1823	1823	1823	
5°	1815	1815	1808	1818	1815	172
15°	1730	1730	1720	1730	1728	488
25°	1568	1568	1565	1578	1583	721
35°	1345	1348	1370	1398	1403	840
45°	1083	1095	1138	1160	1168	834
55°	798	833	868	870	863	715
65°	520	543	553	528	523	510
75°	238	255	250	238	238	254
85°	38	42	38	35	32	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1822.9	1822.9	1822.9	1822.9	1822.9
2.5°	1822.9	1822.9	1812.9	1822.9	1825.4
5°	1815.4	1815.4	1807.9	1817.9	1815.4
7.5°	1802.9	1800.4	1792.9	1800.4	1802.9
10°	1782.9	1780.4	1772.9	1782.9	1782.9
12.5°	1760.4	1757.9	1750.4	1757.9	1755.4
15°	1730.4	1730.4	1720.3	1730.4	1727.9
17.5°	1695.3	1695.3	1687.8	1692.8	1695.3
20°	1657.8	1657.8	1647.8	1660.3	1655.3
22.5°	1615.3	1615.3	1607.8	1620.3	1620.3
25°	1567.8	1567.8	1565.3	1577.8	1582.8
27.5°	1515.3	1517.8	1517.8	1537.8	1542.8
30°	1460.3	1462.8	1470.3	1495.3	1500.3
32.5°	1405.3	1407.8	1417.8	1447.8	1455.3
35°	1345.3	1347.8	1370.3	1397.8	1402.8
37.5°	1280.3	1287.8	1315.3	1342.8	1347.8
40°	1215.2	1222.7	1260.3	1282.8	1290.3
42.5°	1147.7	1162.7	1200.2	1222.7	1230.2
45°	1082.7	1095.2	1137.7	1160.2	1167.7
47.5°	1010.2	1027.7	1072.7	1095.2	1095.2
50°	945.2	965.2	1007.7	1025.2	1025.2
52.5°	872.7	900.2	935.2	955.2	950.2
55°	797.7	832.7	867.7	870.2	862.7
57.5°	727.6	760.2	790.2	787.7	765.2
60°	657.6	685.1	712.6	692.6	675.1
62.5°	585.1	615.1	635.1	602.6	595.1
65°	520.1	542.6	552.6	527.6	522.6
67.5°	442.6	470.1	462.6	455.1	450.1
70°	372.6	395.1	385.1	377.6	375.1
72.5°	302.6	325.1	315.1	310.1	302.6
75°	237.5	255.1	250.1	237.5	237.5
77.5°	175.0	190.0	182.5	177.5	175.0
80°	122.5	130.0	127.5	120.0	115.0
82.5°	72.5	82.5	77.5	72.5	70.0
85°	37.5	42.5	37.5	35.0	32.5
87.5°	12.5	12.5	10.0	7.5	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)