

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: P220046

Luminaire Tested: **Z3-WN-5L30-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220046
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-5L30-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: 5595.7 lumens
Efficiency: N/A
Efficacy: 103.6 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

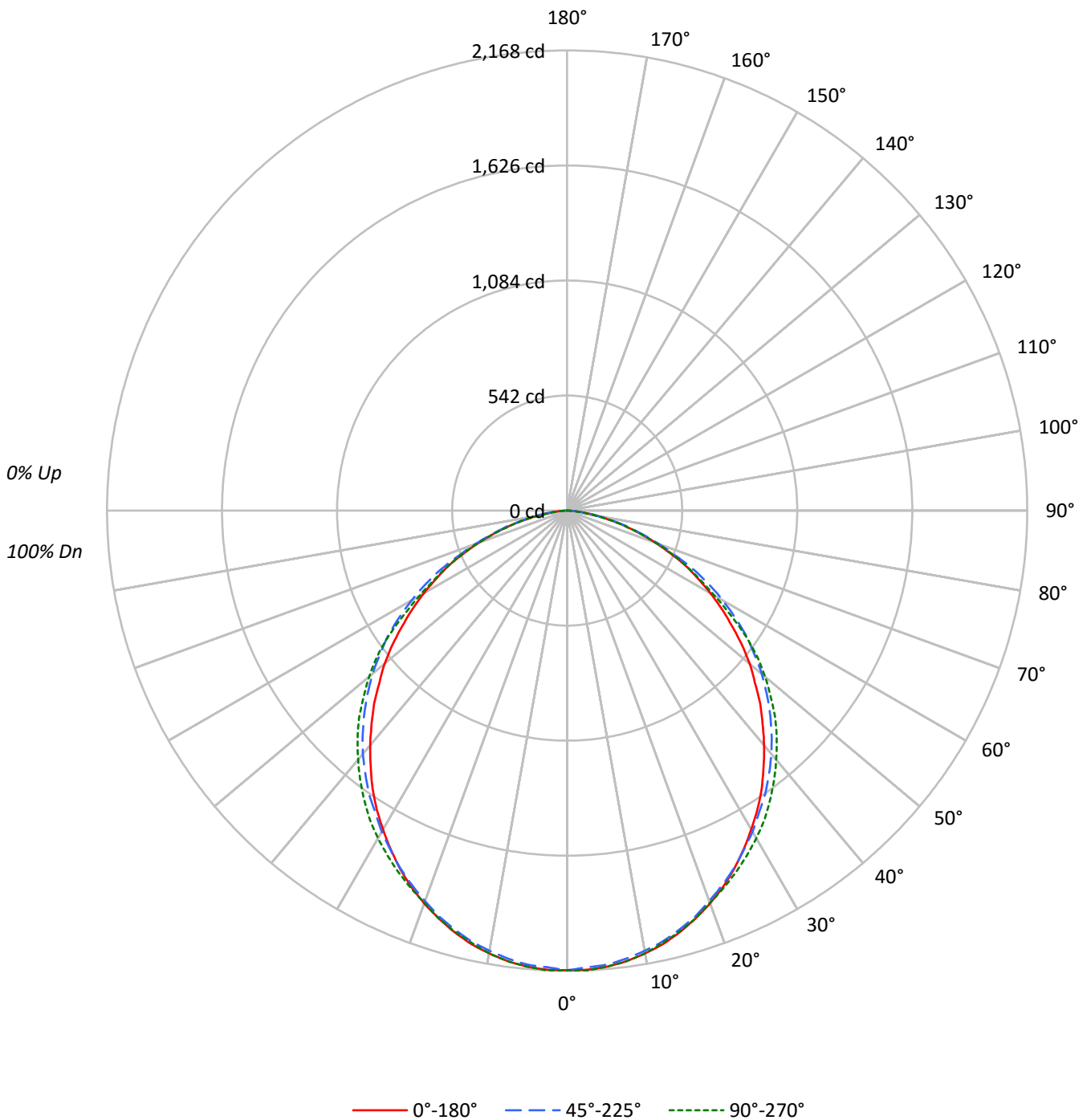
Input Watts (W): 54
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5827	5827	5827
5°	5826	5801	5826
10°	5787	5755	5787
15°	5727	5694	5718
20°	5640	5606	5631
25°	5530	5521	5583
30°	5391	5427	5538
35°	5250	5347	5474
40°	5071	5259	5384
45°	4895	5144	5279
50°	4701	5012	5099
55°	4446	4836	4808
60°	4204	4556	4316
65°	3934	4180	3953
70°	3482	3600	3506
75°	2934	3088	2934
80°	2256	2348	2117
85°	1377	1377	1192



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.4	3.7
10°-20°	578.2	10.3
20°-30°	860.3	15.4
30°-40°	1019.0	18.2
40°-50°	1034.2	18.5
50°-60°	899.9	16.1
60°-70°	629.0	11.2
70°-80°	310.8	5.6
80°-90°	59.9	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°	1642.9	29.4
0°-40°	2661.9	47.6
0°-60°	4596.0	82.1
0°-90°	5595.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5595.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2166	2166	2166	2166	2166	
5°	2157	2157	2148	2160	2157	205
15°	2056	2056	2044	2056	2053	579
25°	1862	1862	1860	1874	1880	857
35°	1598	1601	1628	1660	1666	998
45°	1286	1301	1352	1378	1387	990
55°	948	989	1031	1034	1025	850
65°	618	645	656	627	621	606
75°	282	303	297	282	282	301
85°	45	50	45	42	39	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2165.5	2165.5	2165.5	2165.5	2165.5
2.5°	2165.5	2165.5	2153.6	2165.5	2168.5
5°	2156.6	2156.6	2147.7	2159.5	2156.6
7.5°	2141.7	2138.7	2129.8	2138.7	2141.7
10°	2118.0	2115.0	2106.1	2118.0	2118.0
12.5°	2091.2	2088.3	2079.3	2088.3	2085.3
15°	2055.6	2055.6	2043.7	2055.6	2052.6
17.5°	2014.0	2014.0	2005.1	2011.0	2014.0
20°	1969.4	1969.4	1957.5	1972.4	1966.5
22.5°	1918.9	1918.9	1910.0	1924.9	1924.9
25°	1862.5	1862.5	1859.5	1874.4	1880.3
27.5°	1800.1	1803.1	1803.1	1826.8	1832.8
30°	1734.8	1737.7	1746.6	1776.3	1782.3
32.5°	1669.4	1672.4	1684.3	1719.9	1728.8
35°	1598.1	1601.1	1627.8	1660.5	1666.4
37.5°	1520.9	1529.8	1562.5	1595.2	1601.1
40°	1443.7	1452.6	1497.1	1523.9	1532.8
42.5°	1363.5	1381.3	1425.8	1452.6	1461.5
45°	1286.2	1301.1	1351.6	1378.3	1387.2
47.5°	1200.1	1220.9	1274.3	1301.1	1301.1
50°	1122.8	1146.6	1197.1	1217.9	1217.9
52.5°	1036.7	1069.4	1111.0	1134.7	1128.8
55°	947.6	989.2	1030.8	1033.7	1024.8
57.5°	864.4	903.0	938.7	935.7	909.0
60°	781.2	813.9	846.6	822.8	802.0
62.5°	695.1	730.7	754.5	715.9	707.0
65°	617.9	644.6	656.5	626.8	620.8
67.5°	525.8	558.5	549.5	540.6	534.7
70°	442.6	469.3	457.5	448.5	445.6
72.5°	359.4	386.2	374.3	368.3	359.4
75°	282.2	303.0	297.0	282.2	282.2
77.5°	207.9	225.8	216.8	210.9	207.9
80°	145.6	154.5	151.5	142.6	136.6
82.5°	86.1	98.0	92.1	86.1	83.2
85°	44.6	50.5	44.6	41.6	38.6
87.5°	14.9	14.9	11.9	8.9	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)