

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: P220251

Luminaire Tested: **Z3-WL-4L30-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220251
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35865)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WL-4L30-LD5-UNV-24
Description: CLASS Z3 2X4 RECESSED LED LUMIANIRE
WITH A FROSTED PRISMATIC ROUND LENS
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5939.7 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.31 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

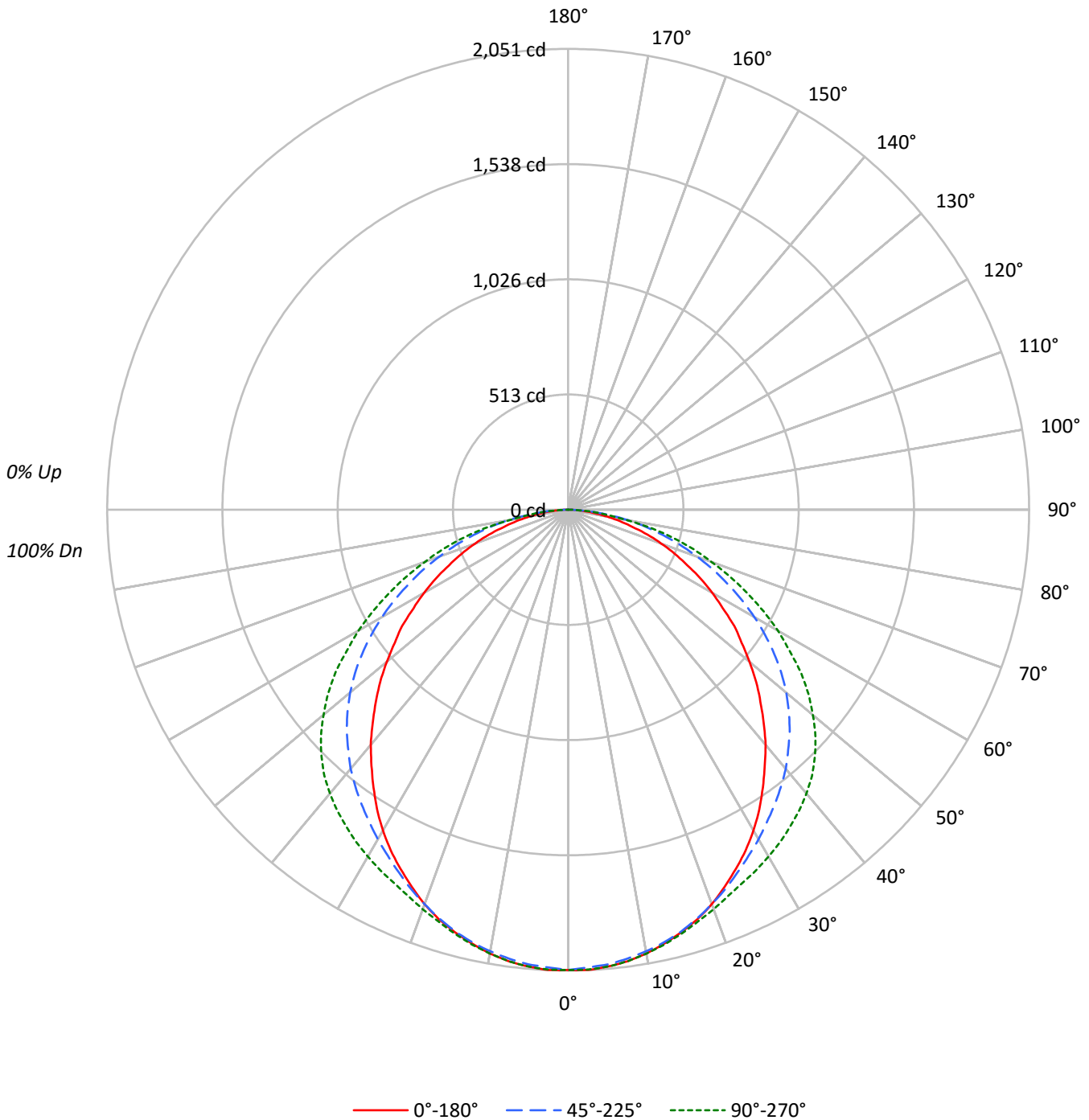
Input Watts (W): 59.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	85	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2757	2757	2757
5°	2757	2743	2757
10°	2740	2727	2740
15°	2712	2706	2720
20°	2675	2675	2709
25°	2620	2646	2721
30°	2562	2632	2769
35°	2480	2631	2827
40°	2400	2645	2896
45°	2302	2653	2955
50°	2204	2651	2975
55°	2116	2626	2966
60°	1994	2575	2902
65°	1860	2491	2796
70°	1735	2391	2669
75°	1539	2262	2507
80°	1352	2111	2005
85°	1150	1664	1635



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.4	3.3
10°-20°	549.5	9.3
20°-30°	827.4	13.9
30°-40°	1008.1	17.0
40°-50°	1068.7	18.0
50°-60°	982.1	16.5
60°-70°	752.4	12.7
70°-80°	439.6	7.4
80°-90°	118.6	2.0
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°	1570.3	26.4
0°-40°	2578.4	43.4
0°-60°	4629.1	77.9
0°-90°	5939.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5939.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2049	2049	2049	2049	2049	
5°	2041	2037	2031	2041	2041	194
15°	1947	1947	1943	1953	1953	549
25°	1764	1772	1782	1819	1833	813
35°	1510	1529	1602	1690	1721	945
45°	1210	1257	1394	1514	1553	934
55°	902	972	1120	1229	1265	802
65°	584	661	782	863	878	582
75°	296	363	435	478	482	319
85°	74	104	108	110	106	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2048.8	2048.8	2048.8	2048.8	2048.8
2.5°	2050.8	2046.8	2039.0	2048.8	2048.8
5°	2041.0	2037.0	2031.2	2041.0	2041.0
7.5°	2027.2	2023.3	2015.5	2027.2	2027.2
10°	2005.7	2003.7	1995.9	2007.6	2005.7
12.5°	1978.2	1978.2	1972.3	1982.1	1982.1
15°	1946.8	1946.8	1942.9	1952.7	1952.7
17.5°	1911.6	1911.6	1907.6	1921.4	1921.4
20°	1868.4	1864.5	1868.4	1888.0	1892.0
22.5°	1817.4	1819.4	1827.3	1852.7	1860.6
25°	1764.5	1772.4	1782.2	1819.4	1833.1
27.5°	1709.6	1717.5	1737.1	1790.0	1809.6
30°	1648.8	1658.6	1693.9	1758.6	1782.2
32.5°	1582.2	1597.9	1646.9	1727.3	1754.7
35°	1509.6	1529.2	1601.8	1690.0	1721.4
37.5°	1437.1	1464.5	1554.7	1654.7	1688.1
40°	1366.5	1395.9	1505.7	1613.5	1648.8
42.5°	1288.1	1327.3	1448.9	1564.5	1605.7
45°	1209.7	1256.7	1394.0	1513.6	1552.8
47.5°	1135.2	1186.1	1331.2	1454.7	1492.0
50°	1052.8	1119.5	1266.5	1384.2	1421.4
52.5°	972.4	1045.0	1195.9	1315.5	1346.9
55°	901.9	972.4	1119.5	1229.3	1264.6
57.5°	815.6	899.9	1039.1	1143.0	1166.5
60°	741.1	813.6	956.8	1052.8	1078.3
62.5°	664.6	743.1	872.5	954.8	980.3
65°	584.2	660.7	782.3	862.7	878.3
67.5°	513.7	588.2	699.9	760.7	780.3
70°	441.1	505.8	607.8	668.6	678.4
72.5°	370.5	435.2	523.5	570.5	584.2
75°	296.0	362.7	435.2	478.4	482.3
77.5°	235.3	292.1	354.9	378.4	380.4
80°	174.5	225.5	272.5	270.6	258.8
82.5°	119.6	158.8	184.3	180.4	172.5
85°	74.5	103.9	107.8	109.8	105.9
87.5°	33.3	41.2	45.1	45.1	43.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)