

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: P220260

Luminaire Tested: **Z3-WL-3L40-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220260
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-3L40-LD5-UNV-24
Description: CLASS Z3 2X4 RECESSED LED LUMIANIRE
WITH A FROSTED PRISMATIC ROUND LENS
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5354.0 lumens
Efficiency: N/A
Efficacy: 132.5 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

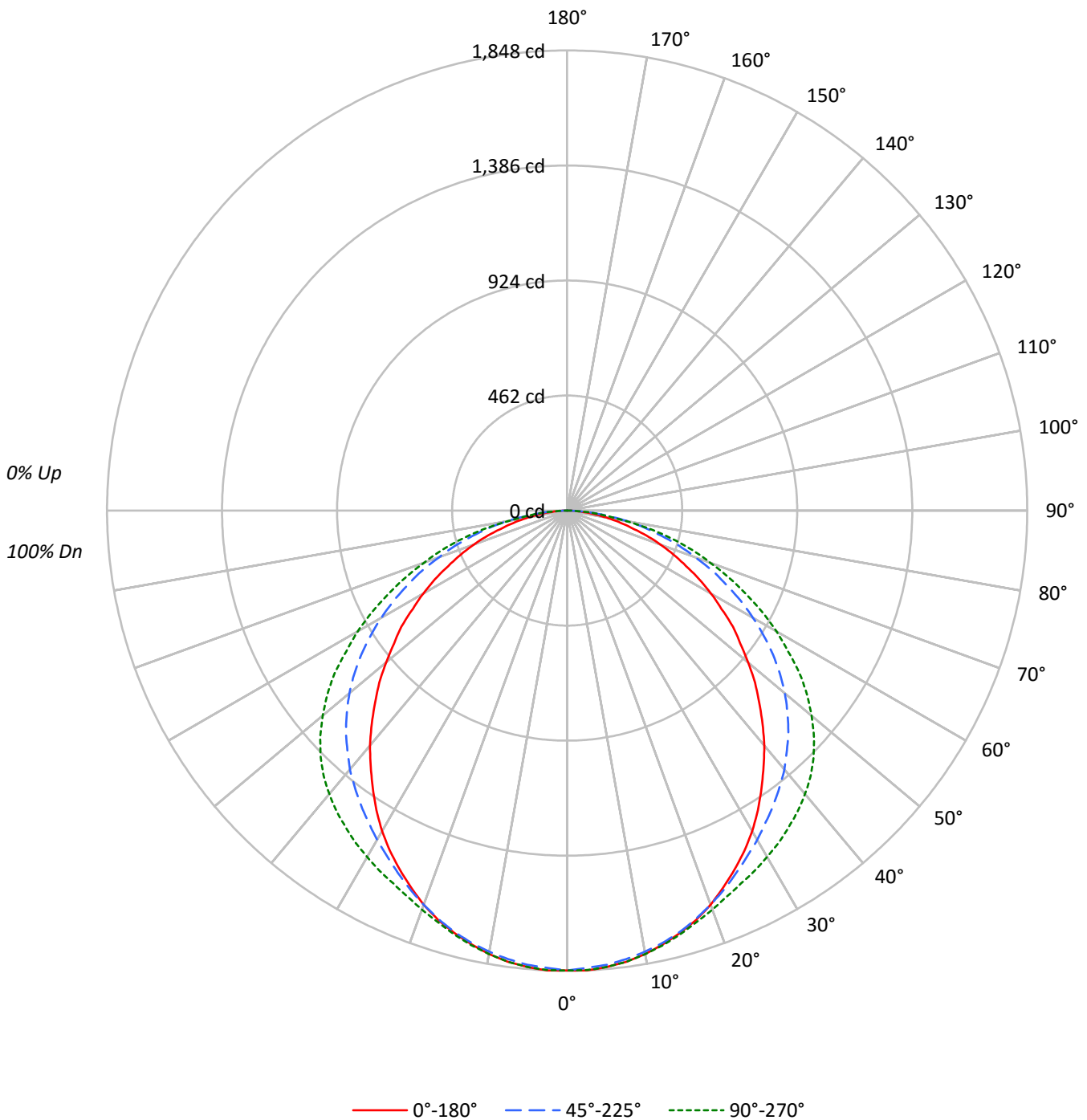
Input Watts (W): 40.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2485	2485	2485
5°	2485	2473	2485
10°	2470	2458	2470
15°	2444	2439	2452
20°	2412	2412	2442
25°	2361	2385	2453
30°	2309	2372	2496
35°	2235	2371	2549
40°	2164	2384	2610
45°	2075	2391	2663
50°	1986	2390	2682
55°	1907	2367	2674
60°	1798	2321	2616
65°	1677	2245	2521
70°	1564	2155	2406
75°	1387	2039	2260
80°	1219	1903	1808
85°	1037	1501	1473



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.3	3.3
10°-20°	495.3	9.3
20°-30°	745.8	13.9
30°-40°	908.7	17.0
40°-50°	963.3	18.0
50°-60°	885.3	16.5
60°-70°	678.2	12.7
70°-80°	396.3	7.4
80°-90°	106.9	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°	1415.4	26.4
0°-40°	2324.1	43.4
0°-60°	4172.7	77.9
0°-90°	5354.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5354.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1847	1847	1847	1847	1847	
5°	1840	1836	1831	1840	1840	175
15°	1755	1755	1751	1760	1760	495
25°	1590	1598	1606	1640	1652	733
35°	1361	1378	1444	1523	1552	851
45°	1090	1133	1256	1364	1400	842
55°	813	876	1009	1108	1140	723
65°	527	596	705	778	792	525
75°	267	327	392	431	435	287
85°	67	94	97	99	95	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1846.8	1846.8	1846.8	1846.8	1846.8
2.5°	1848.5	1845.0	1837.9	1846.8	1846.8
5°	1839.7	1836.2	1830.9	1839.7	1839.7
7.5°	1827.3	1823.8	1816.7	1827.3	1827.3
10°	1807.9	1806.1	1799.0	1809.6	1807.9
12.5°	1783.1	1783.1	1777.8	1786.7	1786.7
15°	1754.9	1754.9	1751.3	1760.2	1760.2
17.5°	1723.1	1723.1	1719.5	1731.9	1731.9
20°	1684.2	1680.6	1684.2	1701.8	1705.4
22.5°	1638.2	1640.0	1647.1	1670.0	1677.1
25°	1590.5	1597.6	1606.4	1640.0	1652.4
27.5°	1541.0	1548.1	1565.8	1613.5	1631.2
30°	1486.2	1495.1	1526.9	1585.2	1606.4
32.5°	1426.2	1440.3	1484.5	1556.9	1581.7
35°	1360.8	1378.4	1443.8	1523.4	1551.6
37.5°	1295.4	1320.1	1401.4	1491.5	1521.6
40°	1231.8	1258.3	1357.2	1454.4	1486.2
42.5°	1161.1	1196.4	1306.0	1410.3	1447.4
45°	1090.4	1132.8	1256.5	1364.3	1399.7
47.5°	1023.2	1069.2	1200.0	1311.3	1344.9
50°	949.0	1009.1	1141.6	1247.7	1281.2
52.5°	876.5	941.9	1078.0	1185.8	1214.1
55°	812.9	876.5	1009.1	1108.1	1139.9
57.5°	735.2	811.2	936.6	1030.3	1051.5
60°	668.0	733.4	862.4	949.0	972.0
62.5°	599.1	669.8	786.4	860.6	883.6
65°	526.6	595.6	705.1	777.6	791.7
67.5°	463.0	530.2	630.9	685.7	703.4
70°	397.6	455.9	547.8	602.6	611.5
72.5°	334.0	392.3	471.9	514.3	526.6
75°	266.9	326.9	392.3	431.2	434.7
77.5°	212.1	263.3	319.9	341.1	342.8
80°	157.3	203.2	245.6	243.9	233.3
82.5°	107.8	143.1	166.1	162.6	155.5
85°	67.2	93.7	97.2	99.0	95.4
87.5°	30.0	37.1	40.6	40.6	38.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)