

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: P220297

Luminaire Tested: **Z3-WN-3L35-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220297
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35868)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WN-3L35-LD5-UNV-24
Description: CLASS Z3 2X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4903.2 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.37 / 1.44
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

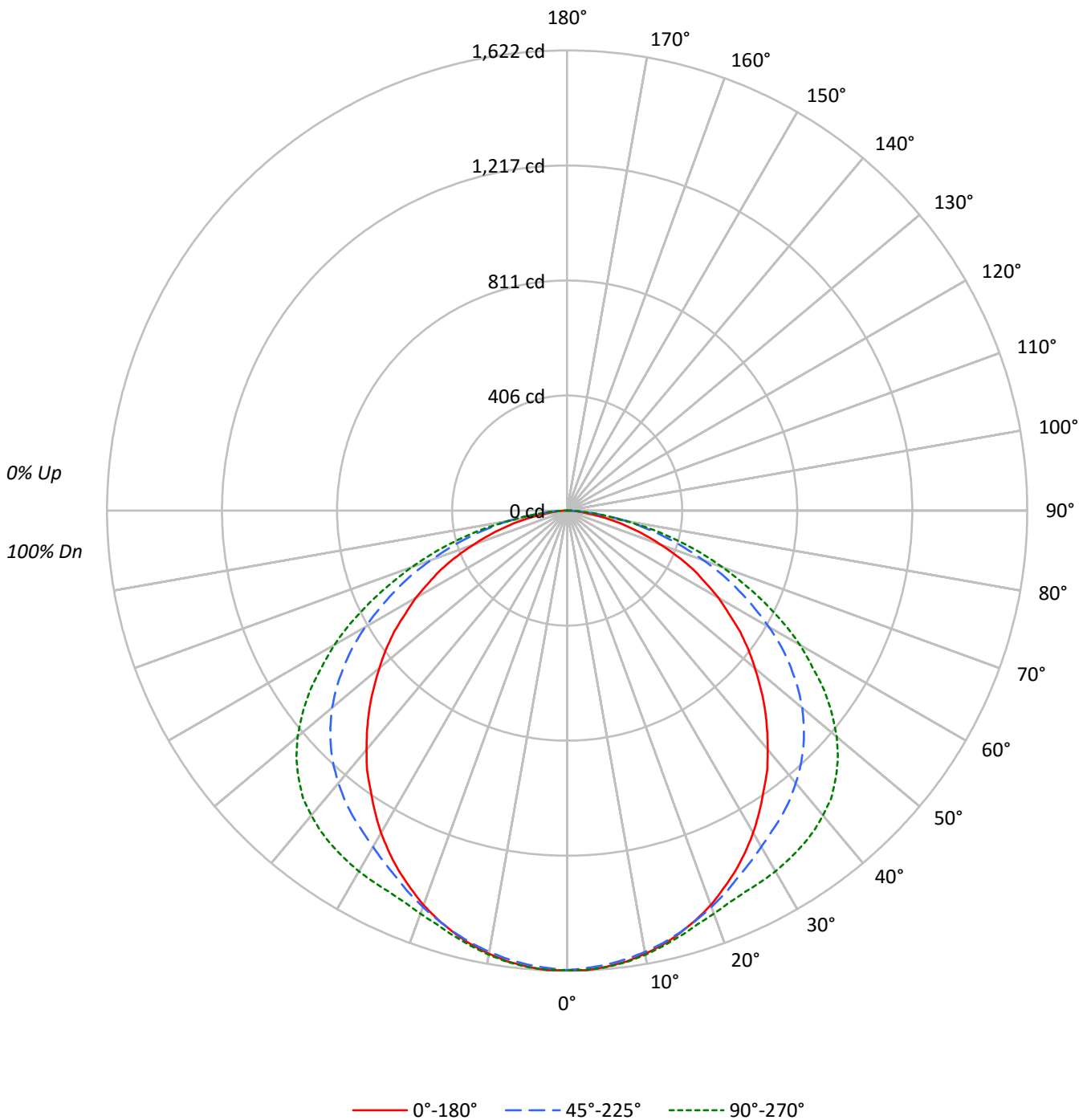
Input Watts (W): 40.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	91	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	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2180	2180	2180
5°	2179	2170	2181
10°	2167	2158	2172
15°	2146	2144	2160
20°	2119	2129	2165
25°	2082	2117	2202
30°	2037	2126	2281
35°	1982	2162	2370
40°	1933	2202	2463
45°	1875	2242	2547
50°	1809	2264	2596
55°	1746	2256	2597
60°	1658	2212	2552
65°	1558	2128	2445
70°	1381	2005	2290
75°	1167	1834	2062
80°	902	1635	1582
85°	625	1121	1068



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.0	3.1
10°-20°	435.6	8.9
20°-30°	663.2	13.5
30°-40°	827.0	16.9
40°-50°	900.5	18.4
50°-60°	842.1	17.2
60°-70°	642.1	13.1
70°-80°	356.1	7.3
80°-90°	83.5	1.7
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°	1251.9	25.5
0°-40°	2078.9	42.4
0°-60°	3821.5	77.9
0°-90°	4903.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4903.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1620	1620	1620	1620	1620	
5°	1613	1613	1607	1613	1615	153
15°	1541	1541	1539	1549	1551	434
25°	1402	1408	1426	1466	1483	645
35°	1207	1234	1316	1409	1443	756
45°	986	1038	1178	1298	1338	759
55°	744	817	962	1073	1107	663
65°	489	554	668	748	768	480
75°	224	285	353	393	397	242
85°	40	69	73	73	69	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1620.1	1620.1	1620.1	1620.1	1620.1
2.5°	1621.8	1618.4	1613.4	1618.4	1620.1
5°	1613.4	1613.4	1606.6	1613.4	1615.0
7.5°	1603.2	1601.5	1594.8	1603.2	1604.9
10°	1586.4	1584.7	1579.6	1586.4	1589.7
12.5°	1566.1	1564.4	1561.0	1571.2	1571.2
15°	1540.8	1540.8	1539.1	1549.2	1550.9
17.5°	1512.1	1512.1	1513.8	1525.6	1529.0
20°	1480.0	1480.0	1486.8	1505.4	1512.1
22.5°	1441.2	1444.6	1458.1	1483.4	1495.2
25°	1402.4	1407.5	1426.0	1466.5	1483.4
27.5°	1358.5	1367.0	1397.3	1453.0	1476.7
30°	1311.3	1323.1	1368.7	1441.2	1468.2
32.5°	1260.6	1277.5	1341.7	1426.0	1456.4
35°	1206.6	1233.6	1316.3	1409.2	1442.9
37.5°	1157.7	1184.7	1287.7	1388.9	1426.0
40°	1100.3	1134.1	1253.9	1365.3	1402.4
42.5°	1042.9	1088.5	1218.5	1334.9	1377.1
45°	985.6	1037.9	1178.0	1297.8	1338.3
47.5°	924.8	983.9	1132.4	1253.9	1294.4
50°	864.1	933.3	1081.8	1203.3	1240.4
52.5°	805.0	877.6	1024.4	1142.5	1176.3
55°	744.2	816.8	961.9	1073.3	1107.1
57.5°	675.0	761.1	896.1	997.4	1024.4
60°	616.0	690.2	821.9	916.4	948.4
62.5°	548.5	626.1	744.2	837.1	860.7
65°	489.4	553.5	668.3	747.6	767.9
67.5°	420.2	486.0	592.4	658.2	673.4
70°	351.0	416.8	509.7	572.1	582.2
72.5°	288.6	351.0	432.0	482.7	491.1
75°	224.5	285.2	352.7	393.2	396.6
77.5°	170.4	224.5	278.5	307.1	308.8
80°	116.4	163.7	211.0	214.3	204.2
82.5°	74.3	113.1	136.7	131.6	131.6
85°	40.5	69.2	72.6	72.6	69.2
87.5°	16.9	27.0	27.0	25.3	25.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)