

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: P220255

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220255  
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-3L35-LD5-UNV-24  
Description: CLASS Z3 2X4 RECESSED LED LUMIANIRE  
WITH A FROSTED PRISMATIC ROUND LENS  
Light Source: (168) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5112.8 lumens  
Efficiency: N/A  
Efficacy: 126.6 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

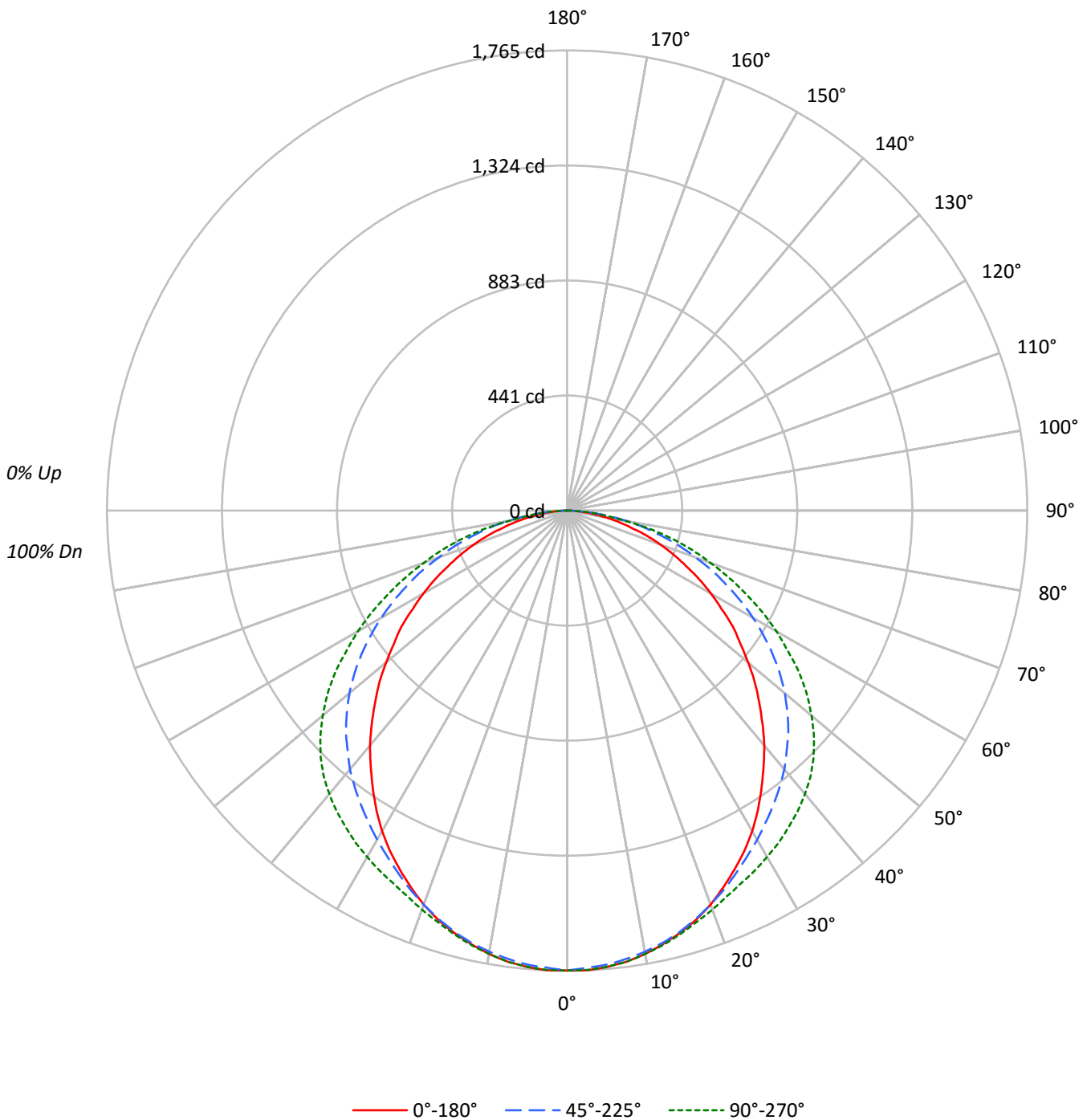
Input Watts (W): 40.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83					83			
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	49	45	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37					37			
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33					33			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24					24			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2373	2373	2373
5°	2373	2361	2373
10°	2359	2347	2359
15°	2334	2330	2341
20°	2303	2303	2332
25°	2255	2277	2343
30°	2205	2265	2383
35°	2134	2265	2434
40°	2066	2276	2493
45°	1981	2283	2543
50°	1897	2282	2561
55°	1821	2260	2553
60°	1717	2216	2498
65°	1601	2144	2407
70°	1494	2058	2297
75°	1325	1948	2158
80°	1164	1818	1726
85°	990	1433	1406



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.5	3.3
10°-20°	473.0	9.3
20°-30°	712.2	13.9
30°-40°	867.7	17.0
40°-50°	919.9	18.0
50°-60°	845.4	16.5
60°-70°	647.6	12.7
70°-80°	378.4	7.4
80°-90°	102.0	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°	1351.7	26.4
0°-40°	2219.4	43.4
0°-60°	3984.7	77.9
0°-90°	5112.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5112.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1764	1764	1764	1764	1764	
5°	1757	1753	1748	1757	1757	167
15°	1676	1676	1672	1681	1681	473
25°	1519	1526	1534	1566	1578	700
35°	1300	1316	1379	1455	1482	813
45°	1041	1082	1200	1303	1337	804
55°	776	837	964	1058	1088	690
65°	503	569	673	743	756	501
75°	255	312	375	412	415	274
85°	64	89	93	94	91	74
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1763.6	1763.6	1763.6	1763.6	1763.6
2.5°	1765.2	1761.9	1755.1	1763.6	1763.6
5°	1756.8	1753.4	1748.4	1756.8	1756.8
7.5°	1745.0	1741.6	1734.9	1745.0	1745.0
10°	1726.4	1724.7	1718.0	1728.1	1726.4
12.5°	1702.8	1702.8	1697.7	1706.2	1706.2
15°	1675.8	1675.8	1672.4	1680.9	1680.9
17.5°	1645.4	1645.4	1642.1	1653.9	1653.9
20°	1608.3	1604.9	1608.3	1625.2	1628.6
22.5°	1564.4	1566.1	1572.9	1594.8	1601.5
25°	1518.9	1525.6	1534.0	1566.1	1577.9
27.5°	1471.6	1478.4	1495.2	1540.8	1557.7
30°	1419.3	1427.7	1458.1	1513.8	1534.0
32.5°	1361.9	1375.4	1417.6	1486.8	1510.4
35°	1299.5	1316.3	1378.8	1454.7	1481.7
37.5°	1237.0	1260.6	1338.3	1424.3	1453.0
40°	1176.3	1201.6	1296.1	1388.9	1419.3
42.5°	1108.8	1142.5	1247.1	1346.7	1382.2
45°	1041.3	1081.8	1199.9	1302.8	1336.6
47.5°	977.1	1021.0	1145.9	1252.2	1284.3
50°	906.3	963.6	1090.2	1191.5	1223.5
52.5°	837.1	899.5	1029.4	1132.4	1159.4
55°	776.3	837.1	963.6	1058.1	1088.5
57.5°	702.0	774.6	894.4	983.9	1004.1
60°	637.9	700.4	823.6	906.3	928.2
62.5°	572.1	639.6	751.0	821.9	843.8
65°	502.9	568.7	673.4	742.6	756.1
67.5°	442.2	506.3	602.5	654.8	671.7
70°	379.7	435.4	523.2	575.5	583.9
72.5°	319.0	374.7	450.6	491.1	502.9
75°	254.8	312.2	374.7	411.8	415.2
77.5°	202.5	251.5	305.5	325.7	327.4
80°	150.2	194.1	234.6	232.9	222.8
82.5°	102.9	136.7	158.6	155.3	148.5
85°	64.1	89.4	92.8	94.5	91.1
87.5°	28.7	35.4	38.8	38.8	37.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)