

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: P220270

Luminaire Tested: **Z3-WG-4L35-LD5-UNV-24**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220270  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35866)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: Z3-WG-4L35-LD5-UNV-24  
Description: CLASS Z3 2X4 RECESSED LED LUMIANIRE  
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY  
Light Source: (168) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

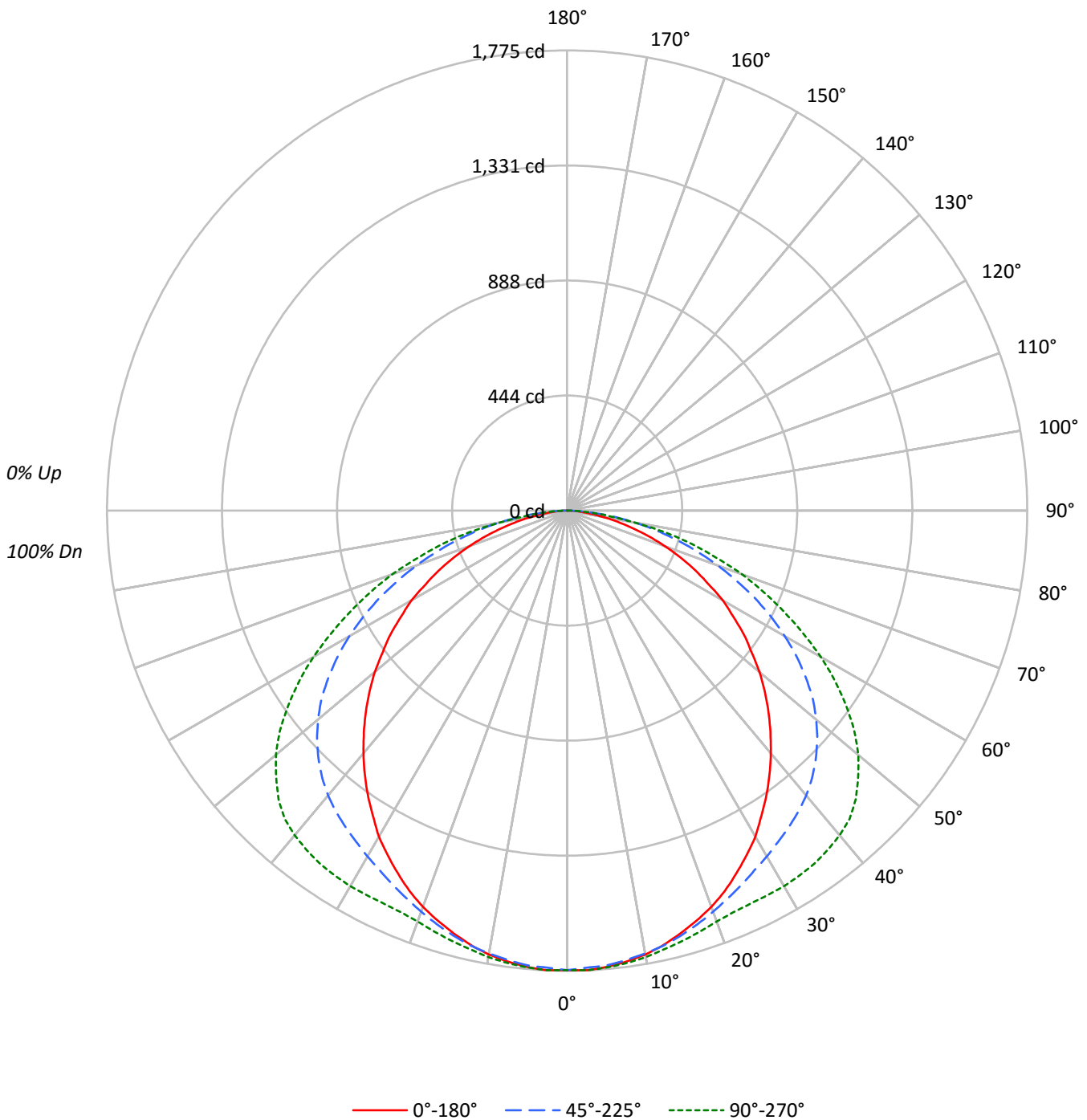
Lumens per Lamp: N/A  
Luminaire Lumens: 5639.7 lumens  
Efficiency: N/A  
Efficacy: 94.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.44 / 1.48  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	108	103	99	95	106	101	97	93	97	94	90	93	90	88	89	87	85	83
2	98	90	82	77	95	88	81	76	84	79	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	52	65	58	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	49	43	38	36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31
8	59	45	36	30	57	44	36	30	43	36	30	42	35	30	41	34	30	28
9	55	41	33	27	54	41	33	27	40	32	27	38	32	27	37	31	27	25
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22

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

	0°	45°	90°
0°	2385	2385	2385
5°	2386	2378	2389
10°	2375	2370	2389
15°	2352	2363	2394
20°	2329	2358	2415
25°	2293	2364	2483
30°	2257	2394	2599
35°	2202	2448	2731
40°	2147	2520	2871
45°	2090	2581	2996
50°	2027	2626	3070
55°	1952	2638	3084
60°	1868	2611	3042
65°	1739	2542	2937
70°	1574	2432	2818
75°	1342	2268	2590
80°	1086	2046	2000
85°	741	1451	1420



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	167.7	3.0
10°-20°	480.5	8.5
20°-30°	740.0	13.1
30°-40°	936.9	16.6
40°-50°	1035.7	18.4
50°-60°	981.1	17.4
60°-70°	760.0	13.5
70°-80°	433.1	7.7
80°-90°	104.9	1.9
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°	1388.2	24.6
0°-40°	2325.1	41.2
0°-60°	4341.8	77.0
0°-90°	5639.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5639.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1773	1773	1773	1773	1773	
5°	1767	1765	1761	1767	1769	168
15°	1689	1693	1697	1713	1719	476
25°	1545	1557	1593	1651	1673	712
35°	1340	1375	1491	1617	1663	838
45°	1098	1168	1356	1517	1575	847
55°	832	932	1124	1268	1314	742
65°	546	642	798	900	922	539
75°	258	340	436	484	498	278
85°	48	88	94	92	92	61
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1772.7	1772.7	1772.7	1772.7	1772.7
2.5°	1774.7	1770.7	1764.7	1772.7	1774.7
5°	1766.7	1764.7	1760.7	1766.7	1768.7
7.5°	1754.7	1752.7	1748.7	1758.7	1760.7
10°	1738.7	1738.7	1734.7	1744.7	1748.7
12.5°	1716.7	1718.7	1718.7	1728.7	1732.7
15°	1688.7	1692.7	1696.7	1712.7	1718.7
17.5°	1658.7	1664.7	1672.7	1692.7	1702.7
20°	1626.7	1630.7	1646.7	1676.7	1686.7
22.5°	1588.6	1594.6	1618.7	1660.7	1676.7
25°	1544.6	1556.6	1592.6	1650.7	1672.7
27.5°	1498.6	1512.6	1564.6	1640.7	1672.7
30°	1452.6	1468.6	1540.6	1634.7	1672.7
32.5°	1394.6	1422.6	1514.6	1628.7	1668.7
35°	1340.5	1374.6	1490.6	1616.7	1662.7
37.5°	1282.5	1324.5	1464.6	1600.6	1650.7
40°	1222.5	1274.5	1434.6	1580.6	1634.7
42.5°	1160.5	1222.5	1398.6	1554.6	1612.6
45°	1098.4	1168.5	1356.5	1516.6	1574.6
47.5°	1034.4	1112.4	1308.5	1470.6	1522.6
50°	968.4	1054.4	1254.5	1414.6	1466.6
52.5°	896.4	996.4	1194.5	1346.5	1396.6
55°	832.3	932.4	1124.5	1268.5	1314.5
57.5°	758.3	870.4	1050.4	1188.5	1226.5
60°	694.3	792.3	970.4	1096.4	1130.5
62.5°	614.2	726.3	886.4	1000.4	1026.4
65°	546.2	642.3	798.3	900.4	922.4
67.5°	472.2	566.2	706.3	796.3	820.3
70°	400.2	486.2	618.2	690.3	716.3
72.5°	330.1	412.2	526.2	588.2	600.2
75°	258.1	340.1	436.2	484.2	498.2
77.5°	198.1	266.1	350.1	388.2	386.2
80°	140.1	200.1	264.1	270.1	258.1
82.5°	90.0	142.1	178.1	164.1	164.1
85°	48.0	88.0	94.0	92.0	92.0
87.5°	18.0	32.0	32.0	32.0	32.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)