

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: P220023

Luminaire Tested: **Z3-WG-5L35-LD5-UNV-14**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220023  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35874)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: Z3-WG-5L35-LD5-UNV-14  
Description: CLASS Z3 1X4 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: 5362.8 lumens  
Efficiency: N/A  
Efficacy: 99.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.35  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

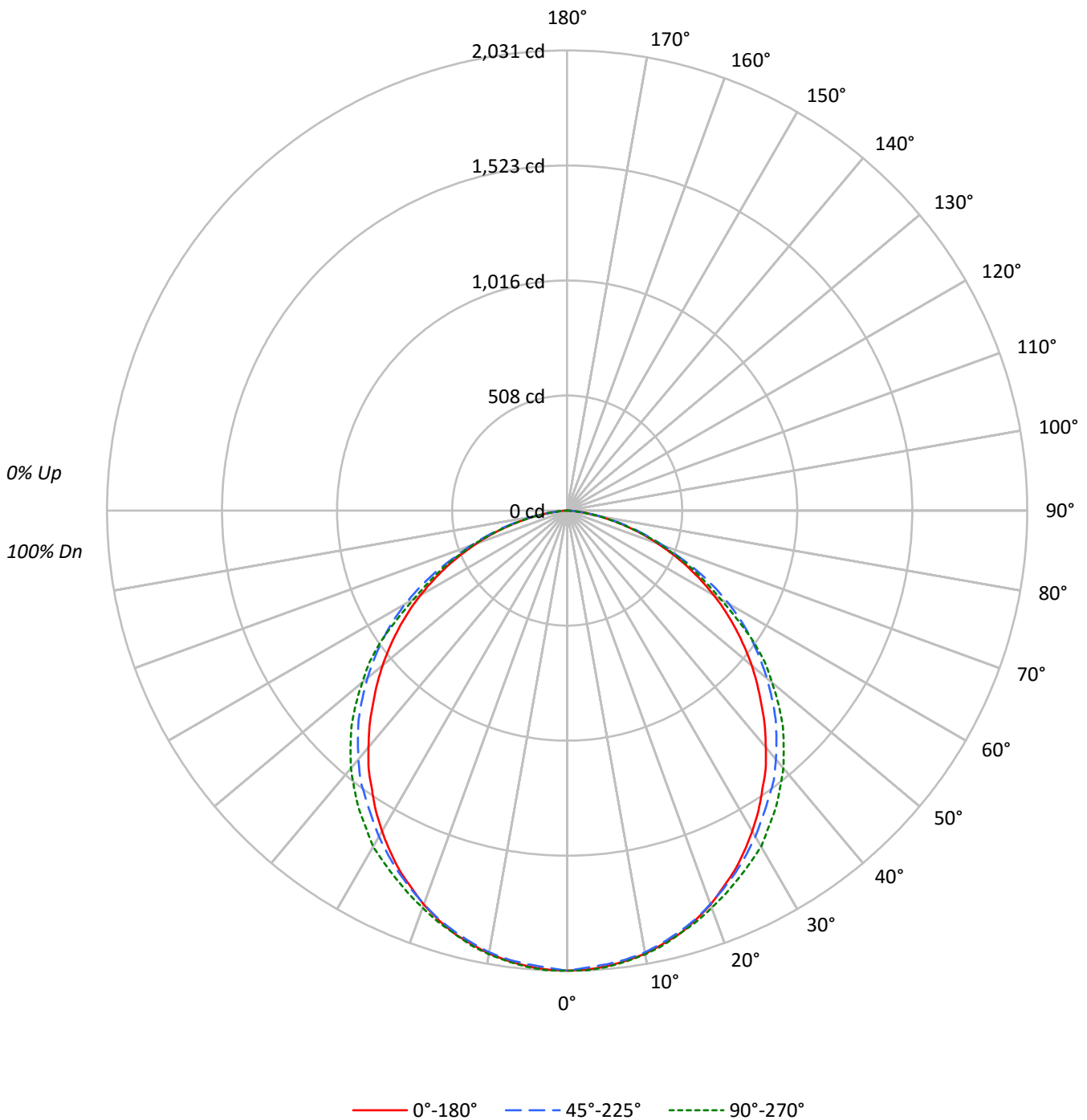
Input Watts (W): 54  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25

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

	0°	45°	90°
0°	5465	5465	5465
5°	5453	5429	5461
10°	5426	5410	5434
15°	5382	5356	5382
20°	5300	5291	5342
25°	5200	5227	5316
30°	5078	5162	5321
35°	4935	5093	5270
40°	4791	5034	5213
45°	4619	4950	5122
50°	4452	4817	4942
55°	4257	4665	4693
60°	4026	4447	4204
65°	3730	4055	3883
70°	3356	3545	3451
75°	2843	3030	2874
80°	2235	2328	2142
85°	1485	1392	1115



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.6	3.6
10°-20°	544.1	10.1
20°-30°	814.4	15.2
30°-40°	971.9	18.1
40°-50°	992.7	18.5
50°-60°	869.6	16.2
60°-70°	611.2	11.4
70°-80°	307.0	5.7
80°-90°	60.2	1.1
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°	1550.1	28.9
0°-40°	2522.0	47.0
0°-60°	4384.4	81.8
0°-90°	5362.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5362.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2031	2031	2031	2031	2031	
5°	2019	2019	2010	2022	2022	192
15°	1932	1929	1923	1935	1932	544
25°	1751	1754	1760	1784	1790	806
35°	1502	1514	1550	1592	1604	941
45°	1214	1238	1301	1337	1346	937
55°	907	952	994	1009	1000	811
65°	586	622	637	613	610	580
75°	273	300	291	282	276	294
85°	48	51	45	39	36	61
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2030.8	2030.8	2030.8	2030.8	2030.8
2.5°	2027.8	2027.8	2018.8	2030.8	2030.8
5°	2018.8	2018.8	2009.8	2021.8	2021.8
7.5°	2003.8	2003.8	1997.8	2006.8	2006.8
10°	1985.8	1985.8	1979.8	1988.8	1988.8
12.5°	1958.7	1958.7	1952.7	1961.7	1964.7
15°	1931.7	1928.7	1922.7	1934.7	1931.7
17.5°	1892.6	1892.6	1889.6	1901.7	1901.7
20°	1850.6	1853.6	1847.6	1862.6	1865.6
22.5°	1799.5	1802.5	1805.5	1823.5	1829.6
25°	1751.4	1754.4	1760.5	1784.5	1790.5
27.5°	1694.4	1700.4	1712.4	1739.4	1751.4
30°	1634.3	1643.3	1661.3	1697.4	1712.4
32.5°	1571.2	1583.2	1604.2	1649.3	1655.3
35°	1502.1	1514.1	1550.2	1592.2	1604.2
37.5°	1439.0	1451.0	1499.1	1535.1	1544.2
40°	1363.9	1381.9	1433.0	1472.1	1484.1
42.5°	1291.8	1309.8	1366.9	1406.0	1415.0
45°	1213.7	1237.7	1300.8	1336.9	1345.9
47.5°	1138.6	1165.6	1225.7	1258.8	1264.8
50°	1063.5	1093.5	1150.6	1183.7	1180.6
52.5°	985.4	1018.4	1072.5	1099.5	1099.5
55°	907.3	952.3	994.4	1009.4	1000.4
57.5°	829.2	868.2	913.3	913.3	886.2
60°	748.0	787.1	826.2	802.1	781.1
62.5°	666.9	706.0	733.0	697.0	691.0
65°	585.8	621.9	636.9	612.9	609.9
67.5°	504.7	540.8	534.7	531.7	519.7
70°	426.6	459.6	450.6	444.6	438.6
72.5°	351.5	381.5	369.5	360.5	357.5
75°	273.4	300.4	291.4	282.4	276.4
77.5°	204.3	222.3	219.3	210.3	204.3
80°	144.2	156.2	150.2	144.2	138.2
82.5°	87.1	99.1	93.1	84.1	81.1
85°	48.1	51.1	45.1	39.1	36.1
87.5°	18.0	15.0	12.0	12.0	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)