

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: P220027

Luminaire Tested: **Z3-WG-4L40-LD5-UNV-14**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220027  
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-4L40-LD5-UNV-14  
Description: CLASS Z3 1X4 RECESSED LED LUMIANIRE  
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY  
Light Source: (168) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4770.2 lumens  
Efficiency: N/A  
Efficacy: 110.2 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

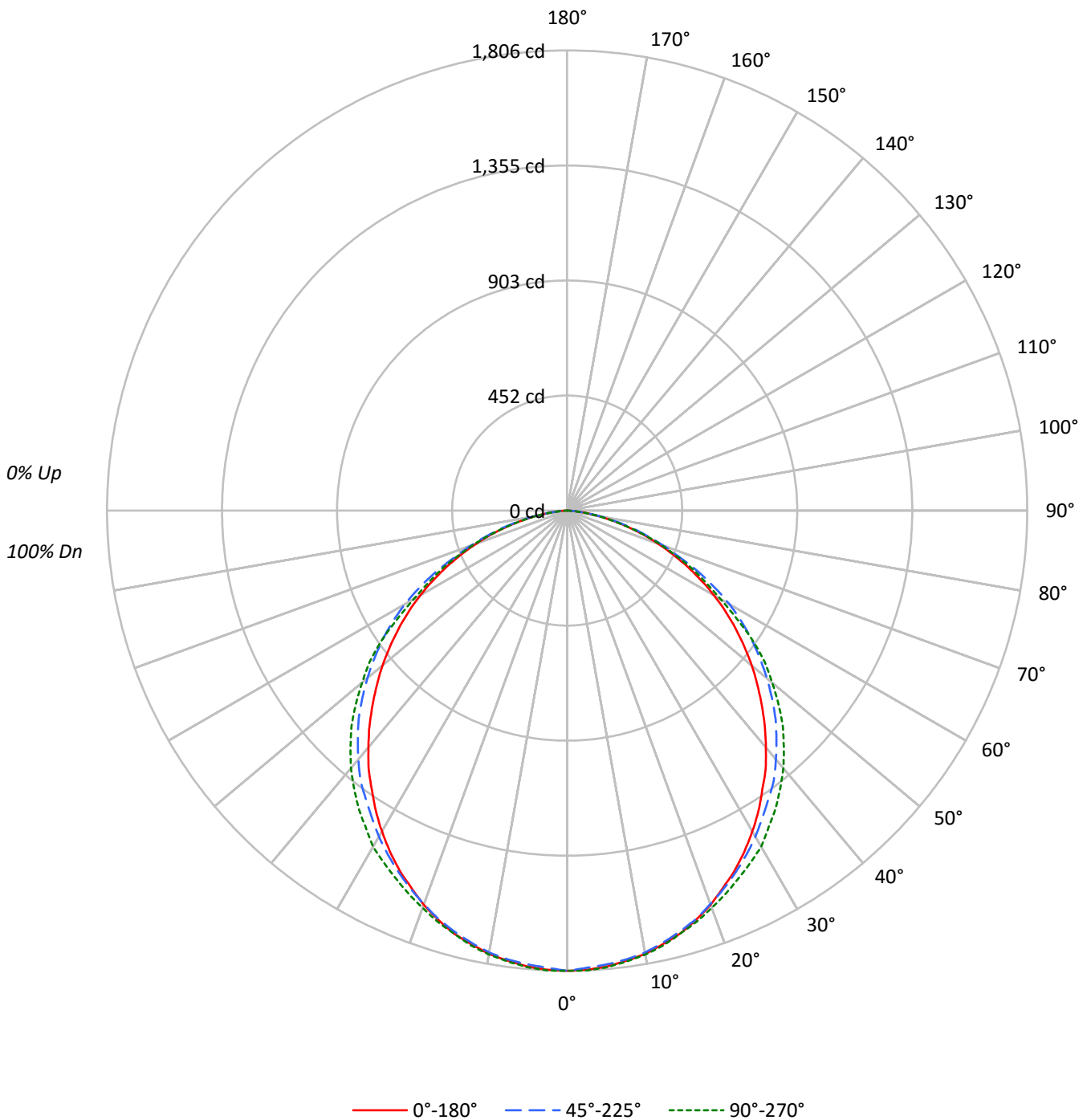
Input Watts (W): 43.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	4861	4861	4861
5°	4851	4829	4858
10°	4826	4812	4834
15°	4787	4764	4787
20°	4714	4706	4752
25°	4626	4649	4729
30°	4517	4592	4733
35°	4389	4530	4688
40°	4262	4477	4637
45°	4109	4403	4556
50°	3960	4285	4397
55°	3786	4150	4175
60°	3581	3955	3739
65°	3318	3607	3454
70°	2986	3153	3069
75°	2529	2695	2556
80°	1988	2070	1905
85°	1321	1238	991



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	170.4	3.6
10°-20°	484.0	10.1
20°-30°	724.4	15.2
30°-40°	864.5	18.1
40°-50°	883.1	18.5
50°-60°	773.5	16.2
60°-70°	543.7	11.4
70°-80°	273.1	5.7
80°-90°	53.6	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°	1378.8	28.9
0°-40°	2243.3	47.0
0°-60°	3899.9	81.8
0°-90°	4770.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4770.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1806	1806	1806	1806	1806	
5°	1796	1796	1788	1798	1798	170
15°	1718	1716	1710	1721	1718	484
25°	1558	1561	1566	1587	1593	717
35°	1336	1347	1379	1416	1427	837
45°	1080	1101	1157	1189	1197	834
55°	807	847	884	898	890	721
65°	521	553	566	545	542	516
75°	243	267	259	251	246	261
85°	43	45	40	35	32	55
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1806.4	1806.4	1806.4	1806.4	1806.4
2.5°	1803.7	1803.7	1795.7	1806.4	1806.4
5°	1795.7	1795.7	1787.7	1798.4	1798.4
7.5°	1782.4	1782.4	1777.0	1785.0	1785.0
10°	1766.3	1766.3	1761.0	1769.0	1769.0
12.5°	1742.3	1742.3	1736.9	1745.0	1747.6
15°	1718.2	1715.6	1710.2	1720.9	1718.2
17.5°	1683.5	1683.5	1680.8	1691.5	1691.5
20°	1646.1	1648.8	1643.4	1656.8	1659.4
22.5°	1600.7	1603.3	1606.0	1622.0	1627.4
25°	1557.9	1560.6	1565.9	1587.3	1592.6
27.5°	1507.1	1512.5	1523.2	1547.2	1557.9
30°	1453.7	1461.7	1477.7	1509.8	1523.2
32.5°	1397.6	1408.3	1427.0	1467.0	1472.4
35°	1336.1	1346.8	1378.9	1416.3	1427.0
37.5°	1280.0	1290.7	1333.4	1365.5	1373.5
40°	1213.2	1229.2	1274.6	1309.4	1320.1
42.5°	1149.1	1165.1	1215.9	1250.6	1258.6
45°	1079.6	1101.0	1157.1	1189.1	1197.2
47.5°	1012.8	1036.8	1090.3	1119.7	1125.0
50°	946.0	972.7	1023.5	1052.9	1050.2
52.5°	876.5	905.9	954.0	978.0	978.0
55°	807.0	847.1	884.5	897.9	889.8
57.5°	737.5	772.3	812.4	812.4	788.3
60°	665.4	700.1	734.9	713.5	694.8
62.5°	593.2	628.0	652.0	620.0	614.6
65°	521.1	553.1	566.5	545.1	542.5
67.5°	448.9	481.0	475.7	473.0	462.3
70°	379.5	408.8	400.8	395.5	390.1
72.5°	312.6	339.4	328.7	320.7	318.0
75°	243.2	267.2	259.2	251.2	245.8
77.5°	181.7	197.7	195.1	187.1	181.7
80°	128.3	139.0	133.6	128.3	122.9
82.5°	77.5	88.2	82.8	74.8	72.1
85°	42.8	45.4	40.1	34.7	32.1
87.5°	16.0	13.4	10.7	10.7	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)