

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: P220014

Luminaire Tested: **Z3-WL-5L40-LD5-UNV-14**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220014  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35873)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: Z3-WL-5L40-LD5-UNV-14  
Description: CLASS Z3 1X4 RECESSED LED LUMIANIRE  
WITH A FROSTED PRISMATIC ROUND LENS  
Light Source: (168) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6350.3 lumens  
Efficiency: N/A  
Efficacy: 117.6 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.31  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

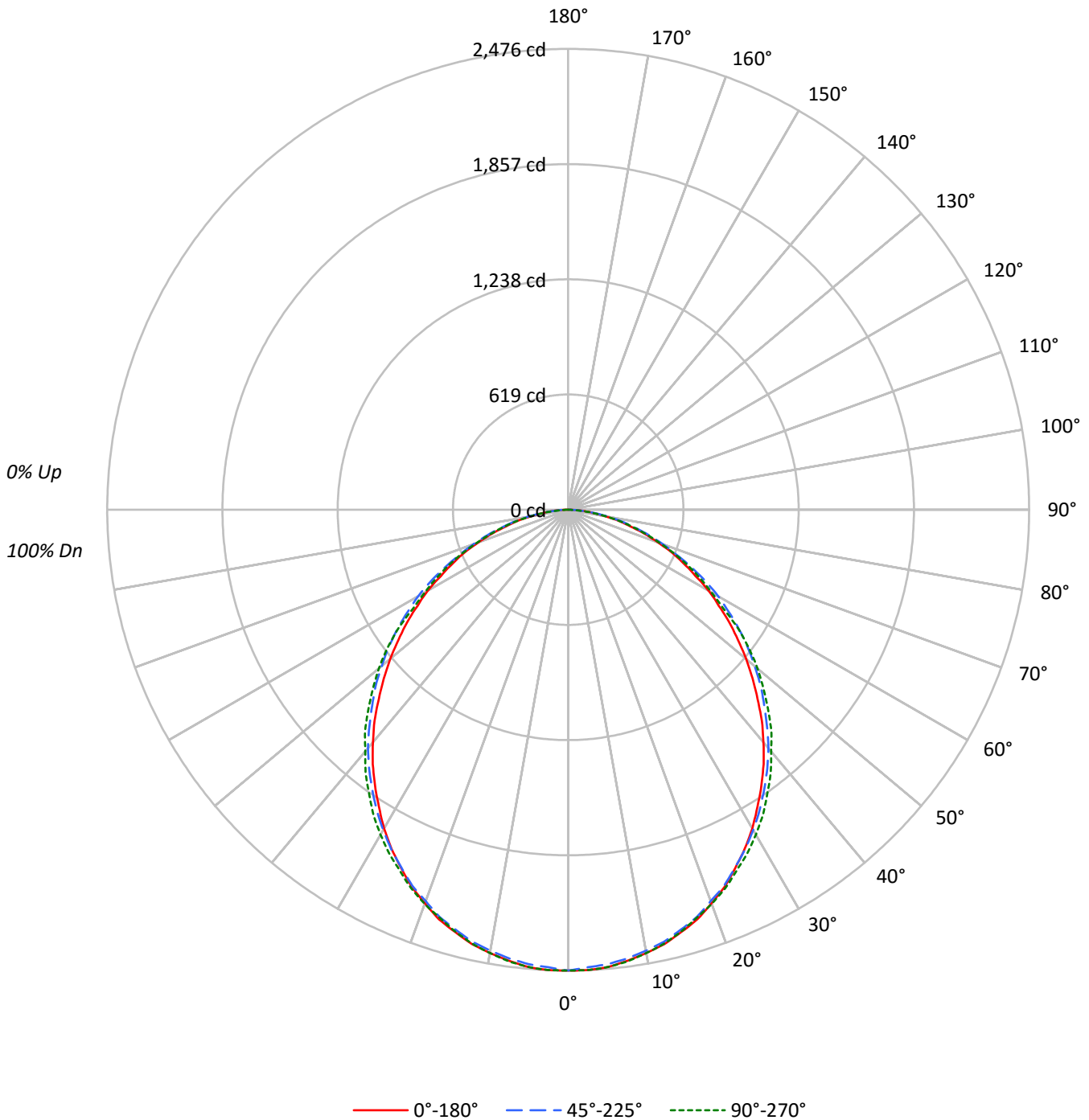
Input Watts (W): 54  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									70									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	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85					85														
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71					71														
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	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	54	47	42	52	46	42	40					40														
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35					35														
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31														
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28					28														
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26					26														

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

	0°	45°	90°
0°	6663	6663	6663
5°	6663	6620	6663
10°	6610	6575	6610
15°	6544	6509	6535
20°	6445	6409	6454
25°	6306	6296	6353
30°	6145	6175	6264
35°	5944	6027	6121
40°	5732	5877	5955
45°	5472	5666	5775
50°	5223	5475	5555
55°	4959	5257	5227
60°	4698	5006	4784
65°	4366	4629	4507
70°	4021	4246	4121
75°	3597	3828	3729
80°	3149	3394	3197
85°	2646	2547	2353



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	233.5	3.7
10°-20°	661.1	10.4
20°-30°	981.1	15.4
30°-40°	1149.0	18.1
40°-50°	1146.5	18.1
50°-60°	985.5	15.5
60°-70°	707.3	11.1
70°-80°	388.7	6.1
80°-90°	97.8	1.5
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°	1875.7	29.5
0°-40°	3024.6	47.6
0°-60°	5156.6	81.2
0°-90°	6350.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6350.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2476	2476	2476	2476	2476	
5°	2467	2463	2451	2467	2467	234
15°	2349	2346	2336	2349	2346	662
25°	2124	2124	2120	2140	2140	978
35°	1809	1816	1835	1860	1863	1131
45°	1438	1454	1489	1517	1517	1111
55°	1057	1086	1121	1127	1114	944
65°	686	717	727	714	708	681
75°	346	371	368	368	359	371
85°	86	89	82	73	76	98
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2476.1	2476.1	2476.1	2476.1	2476.1
2.5°	2476.1	2472.9	2460.2	2476.1	2476.1
5°	2466.6	2463.4	2450.7	2466.6	2466.6
7.5°	2444.3	2444.3	2431.6	2444.3	2447.5
10°	2418.9	2418.9	2406.2	2422.1	2418.9
12.5°	2390.4	2384.0	2377.7	2390.4	2387.2
15°	2349.1	2345.9	2336.4	2349.1	2345.9
17.5°	2307.8	2301.5	2295.1	2304.7	2298.3
20°	2250.7	2247.5	2238.0	2253.9	2253.9
22.5°	2193.6	2190.4	2187.2	2199.9	2203.1
25°	2123.7	2123.7	2120.5	2139.6	2139.6
27.5°	2053.9	2053.9	2057.1	2079.3	2082.5
30°	1977.7	1977.7	1987.2	2012.6	2015.8
32.5°	1892.0	1898.3	1914.2	1942.8	1945.9
35°	1809.4	1815.8	1834.8	1860.2	1863.4
37.5°	1723.7	1730.1	1755.5	1780.9	1787.2
40°	1631.7	1638.0	1672.9	1695.2	1695.2
42.5°	1539.6	1549.1	1580.9	1609.5	1615.8
45°	1438.0	1453.9	1488.8	1517.4	1517.4
47.5°	1342.8	1365.0	1403.1	1428.5	1422.2
50°	1247.6	1269.8	1307.9	1330.1	1326.9
52.5°	1149.2	1174.6	1215.8	1231.7	1225.3
55°	1057.1	1085.7	1120.6	1126.9	1114.2
57.5°	958.7	990.4	1022.2	1022.2	987.3
60°	873.0	898.4	930.1	895.2	888.9
62.5°	771.4	809.5	831.7	800.0	800.0
65°	685.7	717.4	727.0	714.3	707.9
67.5°	603.1	628.5	628.5	622.2	619.0
70°	511.1	539.7	539.7	530.1	523.8
72.5°	428.6	457.1	453.9	453.9	441.3
75°	346.0	371.4	368.2	368.2	358.7
77.5°	276.2	288.9	295.2	285.7	282.5
80°	203.2	215.9	219.0	209.5	206.3
82.5°	136.5	149.2	149.2	142.9	136.5
85°	85.7	88.9	82.5	73.0	76.2
87.5°	38.1	34.9	28.6	19.0	19.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)