

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P688847

Luminaire Tested: SQ4R-PP3-125D-93050-1-UNV-STD-W-4\_3000K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688847  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/22/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4R-PP3-125D-93050-1-UNV-STD-W-4\_3000K  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
1250 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4824.9 lumens  
Efficiency: N/A  
Efficacy: 78.7 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')  
CIE Type: Direct

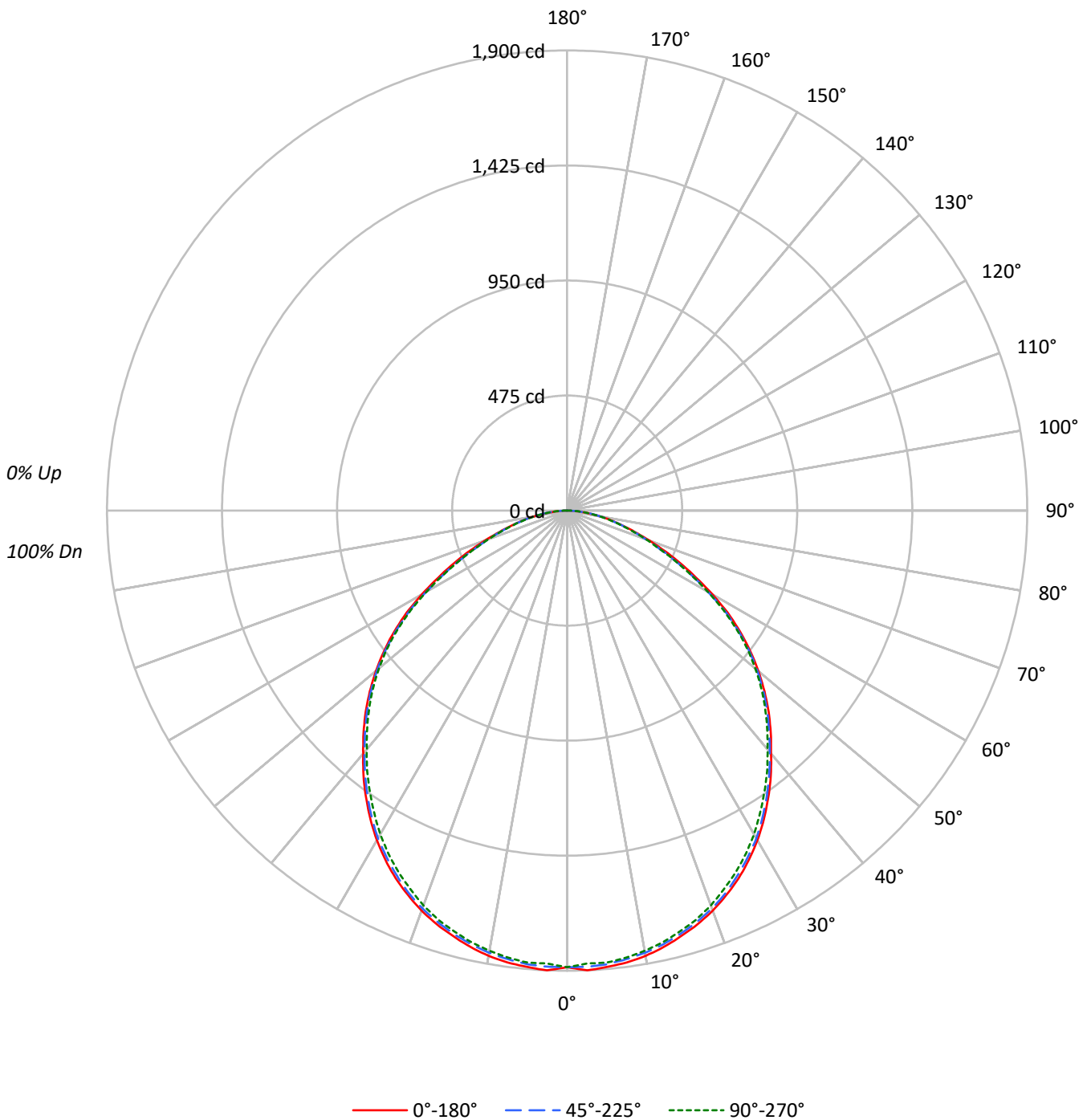
Input Watts (W): 61.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72					72			
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61					61			
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53					53			
5	77	65	56	50	75	64	56	50	62	55	49	60	53	48	58	52	48	46					46			
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40					40			
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36					36			
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32					32			
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29					29			
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26					26			

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

	0°	45°	90°
0°	18149	18149	18149
5°	18283	18170	18107
10°	18252	18122	18042
15°	18131	18032	17934
20°	18011	17910	17774
25°	17797	17674	17499
30°	17468	17375	17155
35°	17011	16893	16681
40°	16466	16363	16176
45°	16017	15904	15747
50°	15442	15343	15195
55°	14643	14448	14338
60°	13330	12949	12885
65°	11743	11253	11217
70°	10139	9720	9720
75°	8726	8604	8481
80°	7695	7784	7601
85°	6020	6572	6572

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 16017 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	178.4	3.7
10°-20°	509.3	10.6
20°-30°	762.9	15.8
30°-40°	894.7	18.5
40°-50°	897.5	18.6
50°-60°	766.3	15.9
60°-70°	498.1	10.3
70°-80°	249.4	5.2
80°-90°	68.4	1.4
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°	1450.5	30.1
0°-40°	2345.2	48.6
0°-60°	4009.0	83.1
0°-90°	4824.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4824.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1885	1885	1885	1885	1885	
5°	1892	1874	1880	1874	1874	180
15°	1819	1801	1809	1803	1799	513
25°	1675	1656	1664	1649	1647	771
35°	1447	1432	1437	1421	1419	905
45°	1176	1168	1168	1157	1157	906
55°	872	869	861	856	854	776
65°	516	506	494	491	492	514
75°	235	235	231	230	228	253
85°	54	60	60	60	60	65
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1885.2	1885.2	1885.2	1885.2	1885.2
2.5°	1900.1	1880.2	1885.2	1881.9	1872.0
5°	1891.8	1873.6	1880.2	1873.6	1873.6
7.5°	1881.9	1862.1	1868.7	1862.1	1862.1
10°	1867.0	1847.2	1853.8	1847.2	1845.6
12.5°	1845.6	1825.7	1834.0	1825.7	1825.7
15°	1819.1	1800.9	1809.2	1802.6	1799.3
17.5°	1791.0	1771.2	1781.1	1772.9	1771.2
20°	1758.0	1738.2	1748.1	1734.9	1734.9
22.5°	1718.3	1698.5	1710.1	1691.9	1691.9
25°	1675.4	1655.5	1663.8	1648.9	1647.3
27.5°	1625.8	1606.0	1614.2	1597.7	1597.7
30°	1571.3	1553.1	1563.0	1544.8	1543.2
32.5°	1511.8	1495.3	1501.9	1483.7	1482.1
35°	1447.4	1432.5	1437.4	1420.9	1419.3
37.5°	1381.3	1364.7	1371.4	1356.5	1356.5
40°	1310.2	1300.3	1302.0	1290.4	1287.1
42.5°	1244.1	1232.6	1234.2	1222.7	1222.7
45°	1176.4	1168.1	1168.1	1156.6	1156.6
47.5°	1105.3	1098.7	1097.1	1087.2	1087.2
50°	1031.0	1026.0	1024.4	1016.1	1014.5
52.5°	953.3	951.7	945.1	938.5	938.5
55°	872.4	869.1	860.8	855.9	854.2
57.5°	786.5	779.9	771.6	763.3	765.0
60°	692.3	685.7	672.5	669.2	669.2
62.5°	601.4	593.2	579.9	575.0	578.3
65°	515.5	505.6	494.0	490.7	492.4
67.5°	436.2	426.3	413.1	413.1	411.4
70°	360.2	355.2	345.3	345.3	345.3
72.5°	292.4	290.8	284.2	284.2	282.5
75°	234.6	234.6	231.3	229.7	228.0
77.5°	185.1	185.1	183.4	181.7	178.4
80°	138.8	142.1	140.4	138.8	137.1
82.5°	95.8	99.1	99.1	95.8	95.8
85°	54.5	59.5	59.5	59.5	59.5
87.5°	18.2	24.8	26.4	26.4	28.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)