

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: P688929

Luminaire Tested: SQ4R-PR1-125D-93050-1-UNV-STD-W-4\_5000K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688929  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/22/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4R-PR1-125D-93050-1-UNV-STD-W-4\_5000K  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
1250 LUMENS PER FOOT  
Light Source: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4862.7 lumens  
Efficiency: N/A  
Efficacy: 79.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.23 / 1.34  
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')  
CIE Type: Direct

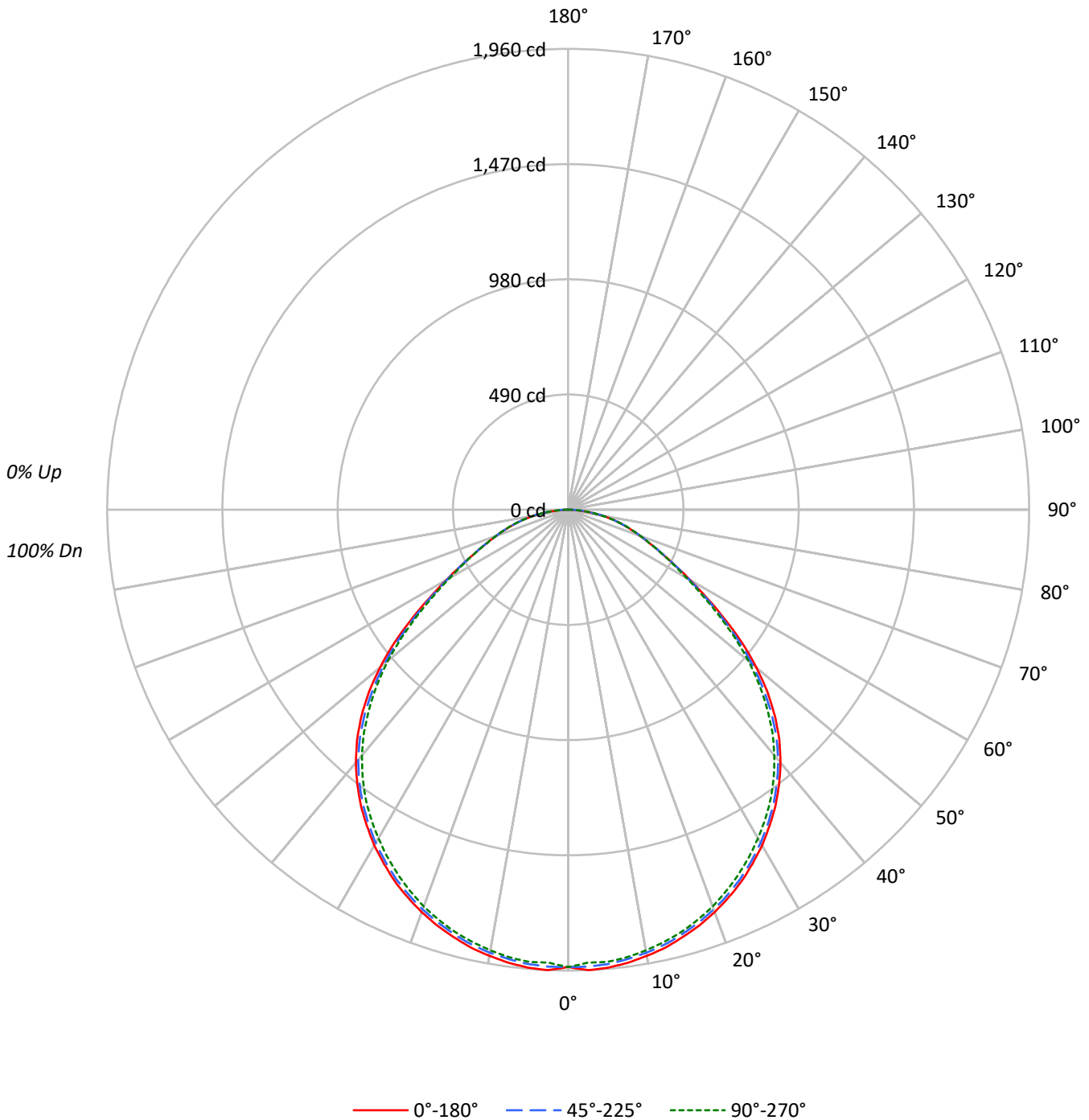
Input Watts (W): 61.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P688929

CATALOG NUMBER: SQ4R-PR1-125D-93050-1-UNV-STD-W-4\_5000K

### Luminous Intensity Polar Plot



TEST NUMBER: P688929

CATALOG NUMBER: SQ4R-PR1-125D-93050-1-UNV-STD-W-4\_5000K

**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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87					85				
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75					72				
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64					62				
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56					54				
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49					47				
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43					41				
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39					37				
8	63	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35					33				
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31					30				
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29					27				

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

	0°	45°	90°
0°	18726	18726	18726
5°	18894	18749	18652
10°	18835	18704	18605
15°	18752	18635	18536
20°	18658	18538	18400
25°	18527	18402	18188
30°	18327	18196	17936
35°	18056	17898	17642
40°	17645	17455	17138
45°	16925	16628	16286
50°	15657	15282	14980
55°	13666	13357	13075
60°	11516	11420	11195
65°	9962	9998	9923
70°	9148	9196	9196
75°	8786	8786	8849
80°	8266	8361	8266
85°	6661	7401	7401

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 16925 cd/sqm

TEST NUMBER: P688929

CATALOG NUMBER: SQ4R-PR1-125D-93050-1-UNV-STD-W-4\_5000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	184.0	3.8
10°-20°	526.6	10.8
20°-30°	794.2	16.3
30°-40°	946.5	19.5
40°-50°	933.7	19.2
50°-60°	712.2	14.6
60°-70°	439.6	9.0
70°-80°	250.5	5.2
80°-90°	75.5	1.6
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°	1504.8	30.9
0°-40°	2451.2	50.4
0°-60°	4097.1	84.3
0°-90°	4862.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4862.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1945	1945	1945	1945	1945	
5°	1955	1933	1940	1933	1930	186
15°	1881	1861	1870	1863	1860	531
25°	1744	1722	1732	1714	1712	803
35°	1536	1518	1523	1503	1501	960
45°	1243	1226	1221	1200	1196	954
55°	814	801	796	782	779	729
65°	437	434	439	436	436	441
75°	236	236	236	238	238	249
85°	60	64	67	67	67	71
90°	0	0	0	0	0	

TEST NUMBER: P688929

CATALOG NUMBER: SQ4R-PR1-125D-93050-1-UNV-STD-W-4\_5000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1945.1	1945.1	1945.1	1945.1	1945.1
2.5°	1960.2	1938.4	1945.1	1940.1	1928.3
5°	1955.1	1933.4	1940.1	1933.4	1930.0
7.5°	1943.4	1921.6	1928.3	1921.6	1920.0
10°	1926.7	1906.6	1913.3	1906.6	1903.2
12.5°	1908.2	1886.5	1894.8	1886.5	1883.1
15°	1881.4	1861.3	1869.7	1863.0	1859.7
17.5°	1854.6	1832.8	1841.2	1834.5	1829.5
20°	1821.1	1801.0	1809.4	1797.7	1796.0
22.5°	1784.3	1764.2	1772.5	1755.8	1755.8
25°	1744.1	1722.3	1732.3	1713.9	1712.2
27.5°	1697.1	1677.0	1685.4	1667.0	1665.3
30°	1648.6	1628.5	1636.8	1616.7	1613.4
32.5°	1593.3	1574.8	1581.5	1561.4	1559.8
35°	1536.3	1517.9	1522.9	1502.8	1501.1
37.5°	1472.6	1455.9	1459.2	1437.5	1435.8
40°	1404.0	1387.2	1388.9	1365.4	1363.7
42.5°	1328.6	1311.8	1310.1	1286.7	1285.0
45°	1243.1	1226.4	1221.3	1199.6	1196.2
47.5°	1149.3	1132.5	1122.5	1104.1	1102.4
50°	1045.4	1028.7	1020.3	1005.2	1000.2
52.5°	933.2	916.4	909.7	896.3	891.3
55°	814.2	800.8	795.8	782.4	779.0
57.5°	700.3	690.2	688.6	675.2	673.5
60°	598.1	593.1	593.1	581.4	581.4
62.5°	511.0	507.6	511.0	504.3	502.6
65°	437.3	433.9	438.9	435.6	435.6
67.5°	375.3	375.3	378.6	377.0	377.0
70°	325.0	325.0	326.7	326.7	326.7
72.5°	279.8	278.1	283.1	283.1	281.5
75°	236.2	236.2	236.2	237.9	237.9
77.5°	192.7	192.7	194.3	194.3	192.7
80°	149.1	150.8	150.8	149.1	149.1
82.5°	105.5	107.2	107.2	107.2	105.5
85°	60.3	63.7	67.0	67.0	67.0
87.5°	21.8	28.5	33.5	33.5	31.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)