

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: P688691

Luminaire Tested: SQ4R-PC3-125D-93050-1-UNV-STD-W-4\_3000K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688691  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/22/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4R-PC3-125D-93050-1-UNV-STD-W-4\_3000K  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID 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: 4928.7 lumens  
Efficiency: N/A  
Efficacy: 80.4 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')  
CIE Type: Direct

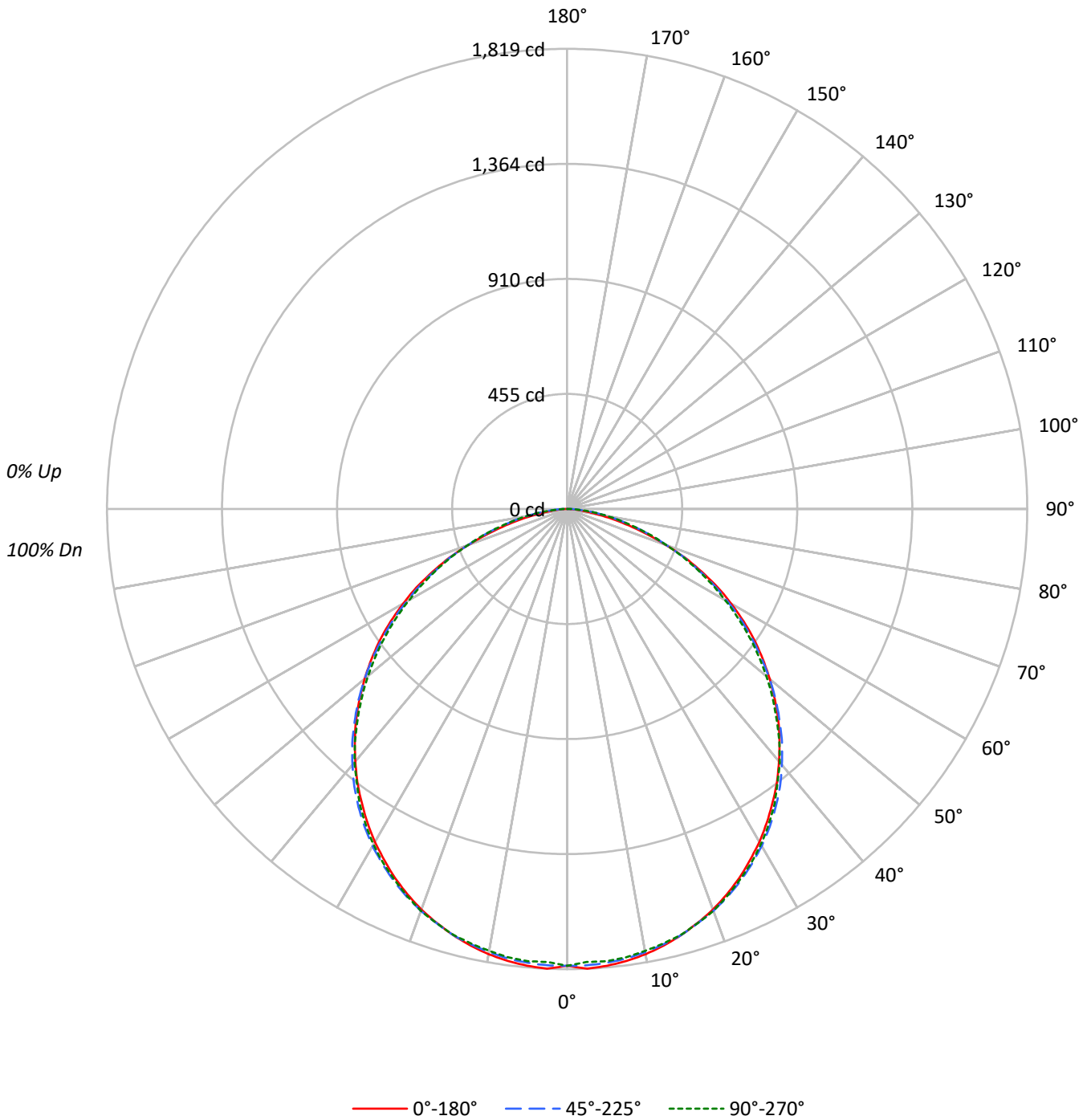
Input Watts (W): 61.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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	98	95	98	95	92	94	92	89	91	88	87	85				85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71				71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60				60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51				51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44				44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39				39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34				34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31				31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28				28
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25				25

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

	0°	45°	90°
0°	17383	17383	17383
5°	17514	17401	17336
10°	17471	17390	17341
15°	17380	17380	17363
20°	17266	17317	17317
25°	17102	17227	17174
30°	16894	17099	17024
35°	16643	16898	16781
40°	16368	16599	16431
45°	16070	16184	15934
50°	15650	15650	15400
55°	15153	14957	14732
60°	14422	14133	13908
65°	13331	13064	12948
70°	11670	11766	11718
75°	9392	10385	10449
80°	6675	8804	8898
85°	4065	7390	7390

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 16184 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.0	3.5
10°-20°	490.6	10.0
20°-30°	743.0	15.1
30°-40°	890.9	18.1
40°-50°	908.3	18.4
50°-60°	792.8	16.1
60°-70°	567.6	11.5
70°-80°	291.6	5.9
80°-90°	72.9	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°	1404.6	28.5
0°-40°	2295.5	46.6
0°-60°	3996.6	81.1
0°-90°	4928.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4928.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1806	1806	1806	1806	1806	
5°	1812	1794	1801	1796	1794	172
15°	1744	1729	1744	1744	1742	492
25°	1610	1598	1622	1617	1617	741
35°	1416	1413	1438	1428	1428	886
45°	1180	1177	1189	1174	1170	909
55°	903	891	891	878	878	805
65°	585	572	574	568	568	580
75°	252	264	279	281	281	272
85°	37	57	67	68	67	50
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1805.6	1805.6	1805.6	1805.6	1805.6
2.5°	1819.0	1798.9	1805.6	1800.6	1792.3
5°	1812.3	1793.9	1800.6	1795.6	1793.9
7.5°	1802.3	1783.9	1792.3	1788.9	1787.2
10°	1787.2	1768.8	1778.9	1775.5	1773.9
12.5°	1767.2	1750.5	1762.2	1758.8	1758.8
15°	1743.8	1728.7	1743.8	1743.8	1742.1
17.5°	1715.3	1702.0	1717.0	1718.7	1717.0
20°	1685.3	1670.2	1690.3	1688.6	1690.3
22.5°	1648.5	1636.8	1658.5	1653.5	1655.2
25°	1610.0	1598.3	1621.7	1616.7	1616.7
27.5°	1564.9	1556.5	1581.6	1576.6	1576.6
30°	1519.7	1511.4	1538.1	1531.4	1531.4
32.5°	1469.6	1464.6	1489.6	1481.3	1481.3
35°	1416.1	1412.7	1437.8	1427.8	1427.8
37.5°	1362.6	1359.2	1382.6	1370.9	1365.9
40°	1302.4	1300.7	1320.8	1307.4	1307.4
42.5°	1242.2	1240.5	1257.3	1240.5	1240.5
45°	1180.3	1177.0	1188.7	1173.7	1170.3
47.5°	1113.5	1110.1	1118.5	1101.8	1100.1
50°	1044.9	1041.6	1044.9	1029.9	1028.2
52.5°	974.7	968.0	968.0	953.0	953.0
55°	902.8	891.1	891.1	877.7	877.7
57.5°	827.6	812.5	814.2	802.5	800.8
60°	749.0	732.3	734.0	723.9	722.3
62.5°	672.1	652.0	657.0	645.3	645.3
65°	585.2	571.8	573.5	568.4	568.4
67.5°	504.9	491.5	499.9	494.9	494.9
70°	414.6	406.3	418.0	418.0	416.3
72.5°	331.0	332.7	347.8	347.8	349.4
75°	252.5	264.2	279.2	280.9	280.9
77.5°	180.6	200.6	217.3	217.3	217.3
80°	120.4	143.8	158.8	162.2	160.5
82.5°	71.9	97.0	108.7	112.0	110.3
85°	36.8	56.8	66.9	68.5	66.9
87.5°	13.4	28.4	33.4	33.4	30.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)