

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: P688686

Luminaire Tested: SQ4R-PC3-125D-92765-1-UNV-STD-W-4\_4000K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688686  
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-92765-1-UNV-STD-W-4\_4000K  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
1250 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4931.9 lumens  
Efficiency: N/A  
Efficacy: 80.6 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

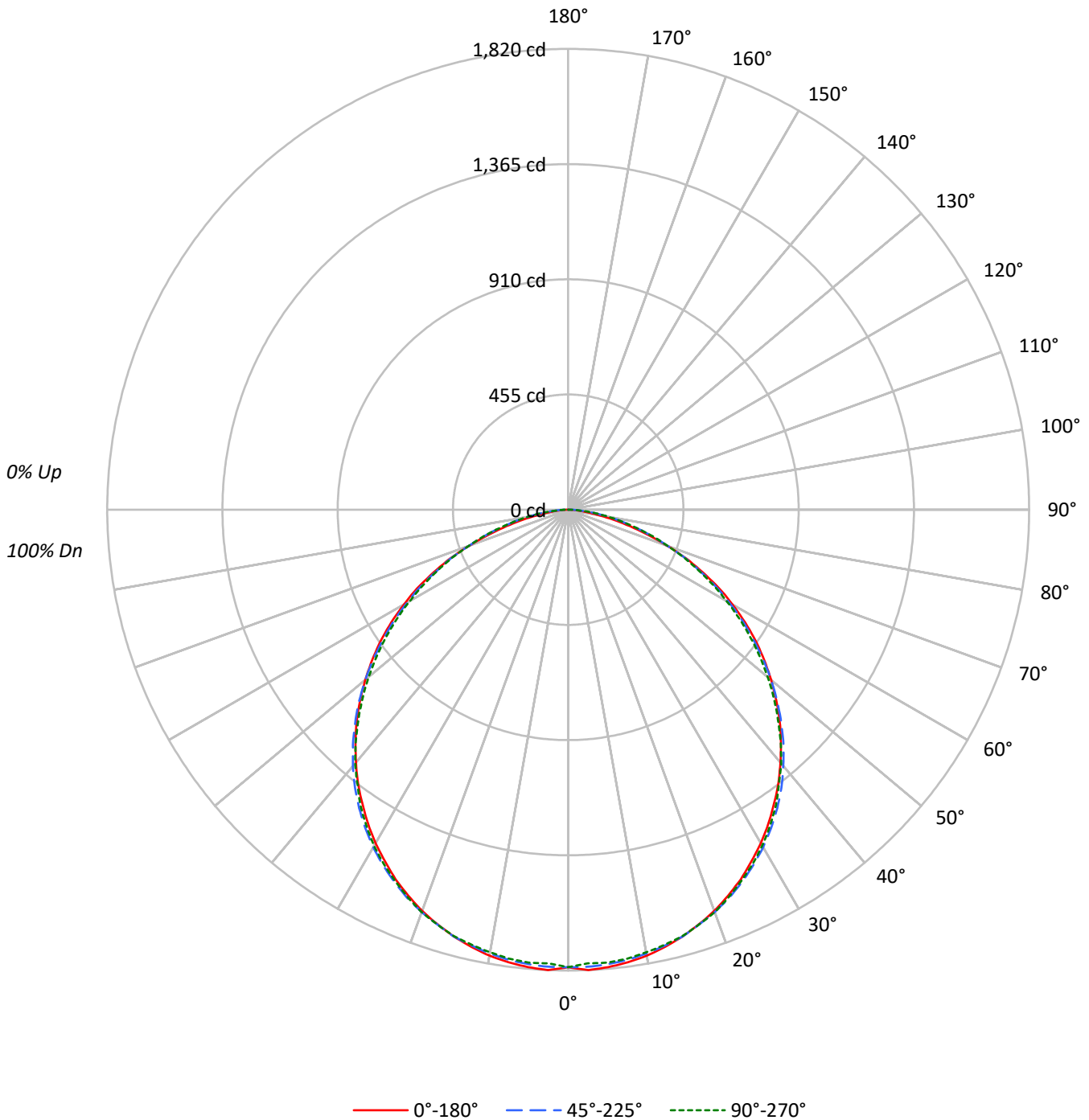
Input Watts (W): 61.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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°	17395	17395	17395
5°	17526	17413	17348
10°	17483	17401	17352
15°	17391	17391	17374
20°	17276	17329	17329
25°	17114	17238	17184
30°	16905	17110	17035
35°	16654	16909	16791
40°	16378	16609	16442
45°	16081	16195	15945
50°	15660	15660	15410
55°	15163	14967	14742
60°	14431	14141	13915
65°	13338	13071	12957
70°	11679	11772	11727
75°	9396	10393	10456
80°	6681	8810	8904
85°	4065	7390	7390

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 16195 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.1	3.5
10°-20°	491.0	10.0
20°-30°	743.5	15.1
30°-40°	891.5	18.1
40°-50°	908.9	18.4
50°-60°	793.3	16.1
60°-70°	568.0	11.5
70°-80°	291.8	5.9
80°-90°	73.0	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°	1405.5	28.5
0°-40°	2297.0	46.6
0°-60°	3999.2	81.1
0°-90°	4931.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4931.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1807	1807	1807	1807	1807	
5°	1814	1795	1802	1797	1795	172
15°	1745	1730	1745	1745	1743	492
25°	1611	1599	1623	1618	1618	742
35°	1417	1414	1439	1429	1429	887
45°	1181	1178	1190	1174	1171	910
55°	903	892	892	878	878	806
65°	586	572	574	569	569	580
75°	253	264	279	281	281	272
85°	37	57	67	69	67	50
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1806.8	1806.8	1806.8	1806.8	1806.8
2.5°	1820.2	1800.1	1806.8	1801.8	1793.4
5°	1813.5	1795.1	1801.8	1796.8	1795.1
7.5°	1803.4	1785.0	1793.4	1790.1	1788.4
10°	1788.4	1770.0	1780.0	1776.7	1775.0
12.5°	1768.3	1751.6	1763.3	1759.9	1759.9
15°	1744.9	1729.8	1744.9	1744.9	1743.2
17.5°	1716.5	1703.1	1718.1	1719.8	1718.1
20°	1686.3	1671.3	1691.4	1689.7	1691.4
22.5°	1649.5	1637.8	1659.6	1654.6	1656.2
25°	1611.1	1599.3	1622.8	1617.7	1617.7
27.5°	1565.9	1557.5	1582.6	1577.6	1577.6
30°	1520.7	1512.4	1539.1	1532.4	1532.4
32.5°	1470.5	1465.5	1490.6	1482.2	1482.2
35°	1417.0	1413.6	1438.7	1428.7	1428.7
37.5°	1363.5	1360.1	1383.5	1371.8	1366.8
40°	1303.2	1301.6	1321.6	1308.3	1308.3
42.5°	1243.0	1241.3	1258.1	1241.3	1241.3
45°	1181.1	1177.8	1189.5	1174.4	1171.1
47.5°	1114.2	1110.8	1119.2	1102.5	1100.8
50°	1045.6	1042.3	1045.6	1030.5	1028.9
52.5°	975.3	968.6	968.6	953.6	953.6
55°	903.4	891.7	891.7	878.3	878.3
57.5°	828.1	813.1	814.7	803.0	801.3
60°	749.5	732.8	734.4	724.4	722.7
62.5°	672.5	652.5	657.5	645.8	645.8
65°	585.5	572.2	573.8	568.8	568.8
67.5°	505.2	491.8	500.2	495.2	495.2
70°	414.9	406.5	418.2	418.2	416.6
72.5°	331.2	332.9	348.0	348.0	349.6
75°	252.6	264.3	279.4	281.1	281.1
77.5°	180.7	200.8	217.5	217.5	217.5
80°	120.5	143.9	158.9	162.3	160.6
82.5°	71.9	97.0	108.7	112.1	110.4
85°	36.8	56.9	66.9	68.6	66.9
87.5°	13.4	28.4	33.5	33.5	30.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)