

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: P688694

Luminaire Tested: SQ4R-PC3-125D-93050-1-UNV-STD-W-4\_4500K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688694  
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\_4500K  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
1250 LUMENS PER FOOT  
Light Source: 4500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5200.1 lumens  
Efficiency: N/A  
Efficacy: 84.7 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

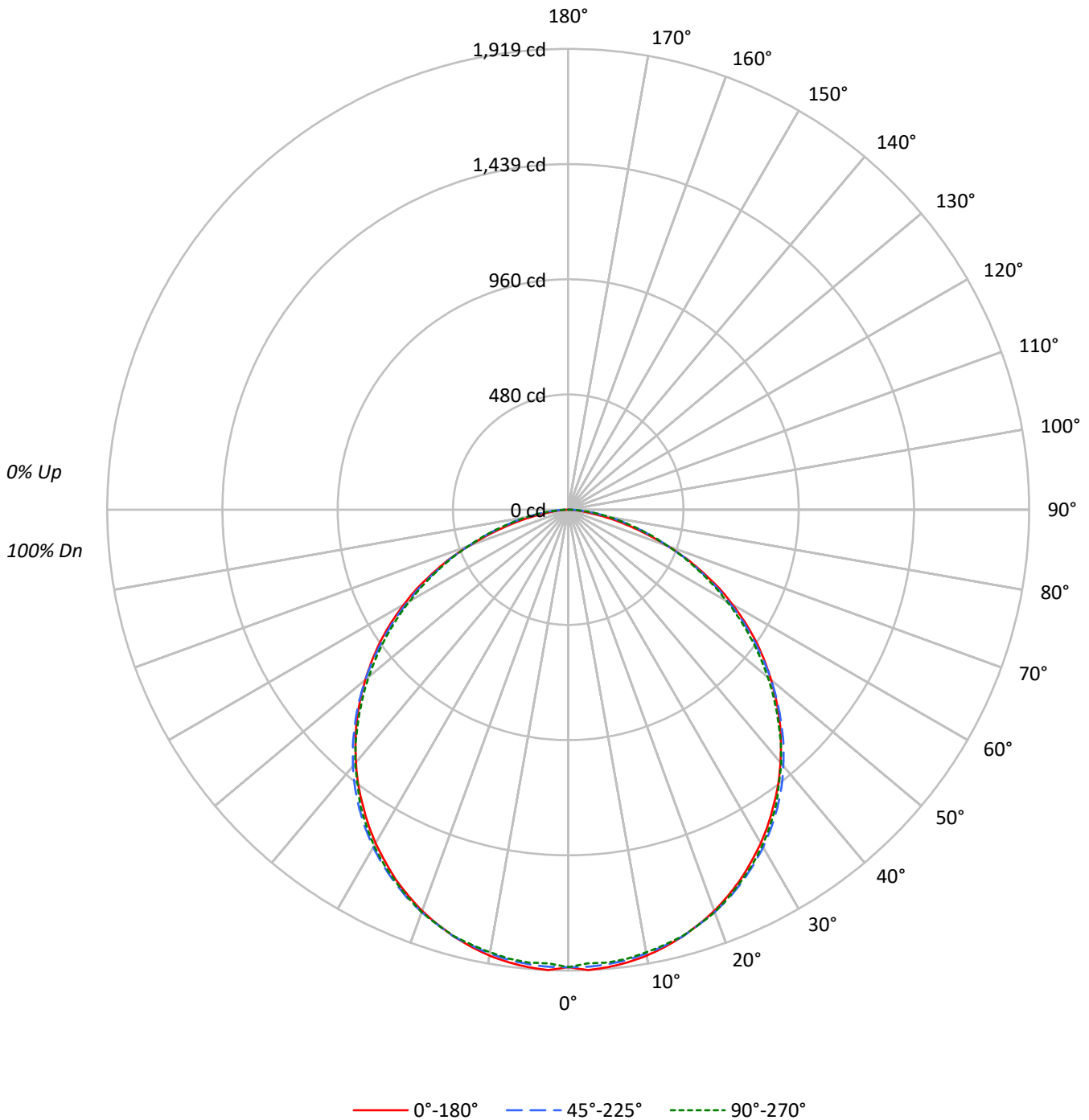
Input Watts (W): 61.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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°	18340	18340	18340
5°	18479	18359	18291
10°	18433	18347	18296
15°	18337	18337	18319
20°	18216	18270	18270
25°	18045	18175	18119
30°	17825	18040	17962
35°	17559	17829	17704
40°	17269	17513	17336
45°	16955	17075	16811
50°	16513	16513	16248
55°	15987	15781	15544
60°	15215	14911	14672
65°	14065	13782	13661
70°	12315	12413	12363
75°	9909	10958	11022
80°	7041	9292	9386
85°	4286	7799	7799

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 17075 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.4	3.5
10°-20°	517.6	10.0
20°-30°	783.9	15.1
30°-40°	939.9	18.1
40°-50°	958.3	18.4
50°-60°	836.5	16.1
60°-70°	598.9	11.5
70°-80°	307.6	5.9
80°-90°	77.0	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°	1482.0	28.5
0°-40°	2421.9	46.6
0°-60°	4216.7	81.1
0°-90°	5200.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5200.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1905	1905	1905	1905	1905	
5°	1912	1893	1900	1894	1893	182
15°	1840	1824	1840	1840	1838	519
25°	1699	1686	1711	1706	1706	782
35°	1494	1490	1517	1506	1506	935
45°	1245	1242	1254	1238	1235	959
55°	952	940	940	926	926	850
65°	617	603	605	600	600	611
75°	266	279	295	296	296	287
85°	39	60	71	72	71	52
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1905.0	1905.0	1905.0	1905.0	1905.0
2.5°	1919.1	1898.0	1905.0	1899.7	1890.9
5°	1912.1	1892.7	1899.7	1894.5	1892.7
7.5°	1901.5	1882.1	1890.9	1887.4	1885.6
10°	1885.6	1866.2	1876.8	1873.3	1871.5
12.5°	1864.5	1846.8	1859.2	1855.6	1855.6
15°	1839.8	1823.9	1839.8	1839.8	1838.0
17.5°	1809.8	1795.7	1811.5	1813.3	1811.5
20°	1778.0	1762.2	1783.3	1781.6	1783.3
22.5°	1739.2	1726.9	1749.8	1744.5	1746.3
25°	1698.7	1686.3	1711.0	1705.7	1705.7
27.5°	1651.0	1642.2	1668.7	1663.4	1663.4
30°	1603.4	1594.6	1622.8	1615.8	1615.8
32.5°	1550.5	1545.2	1571.7	1562.8	1562.8
35°	1494.0	1490.5	1517.0	1506.4	1506.4
37.5°	1437.6	1434.1	1458.8	1446.4	1441.1
40°	1374.1	1372.3	1393.5	1379.4	1379.4
42.5°	1310.6	1308.8	1326.5	1308.8	1308.8
45°	1245.3	1241.8	1254.1	1238.3	1234.7
47.5°	1174.8	1171.2	1180.1	1162.4	1160.7
50°	1102.5	1098.9	1102.5	1086.6	1084.8
52.5°	1028.4	1021.3	1021.3	1005.4	1005.4
55°	952.5	940.2	940.2	926.1	926.1
57.5°	873.1	857.3	859.0	846.7	844.9
60°	790.2	772.6	774.4	763.8	762.0
62.5°	709.1	687.9	693.2	680.9	680.9
65°	617.4	603.3	605.0	599.7	599.7
67.5°	532.7	518.6	527.4	522.1	522.1
70°	437.5	428.6	441.0	441.0	439.2
72.5°	349.3	351.0	366.9	366.9	368.7
75°	266.4	278.7	294.6	296.3	296.3
77.5°	190.5	211.7	229.3	229.3	229.3
80°	127.0	151.7	167.6	171.1	169.3
82.5°	75.8	102.3	114.7	118.2	116.4
85°	38.8	60.0	70.6	72.3	70.6
87.5°	14.1	30.0	35.3	35.3	31.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)