

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: P688690

Luminaire Tested: SQ4R-PC3-125D-92765-1-UNV-STD-W-4\_6500K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688690  
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\_6500K  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
1250 LUMENS PER FOOT  
Light Source: 6500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5361.1 lumens  
Efficiency: N/A  
Efficacy: 87.6 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

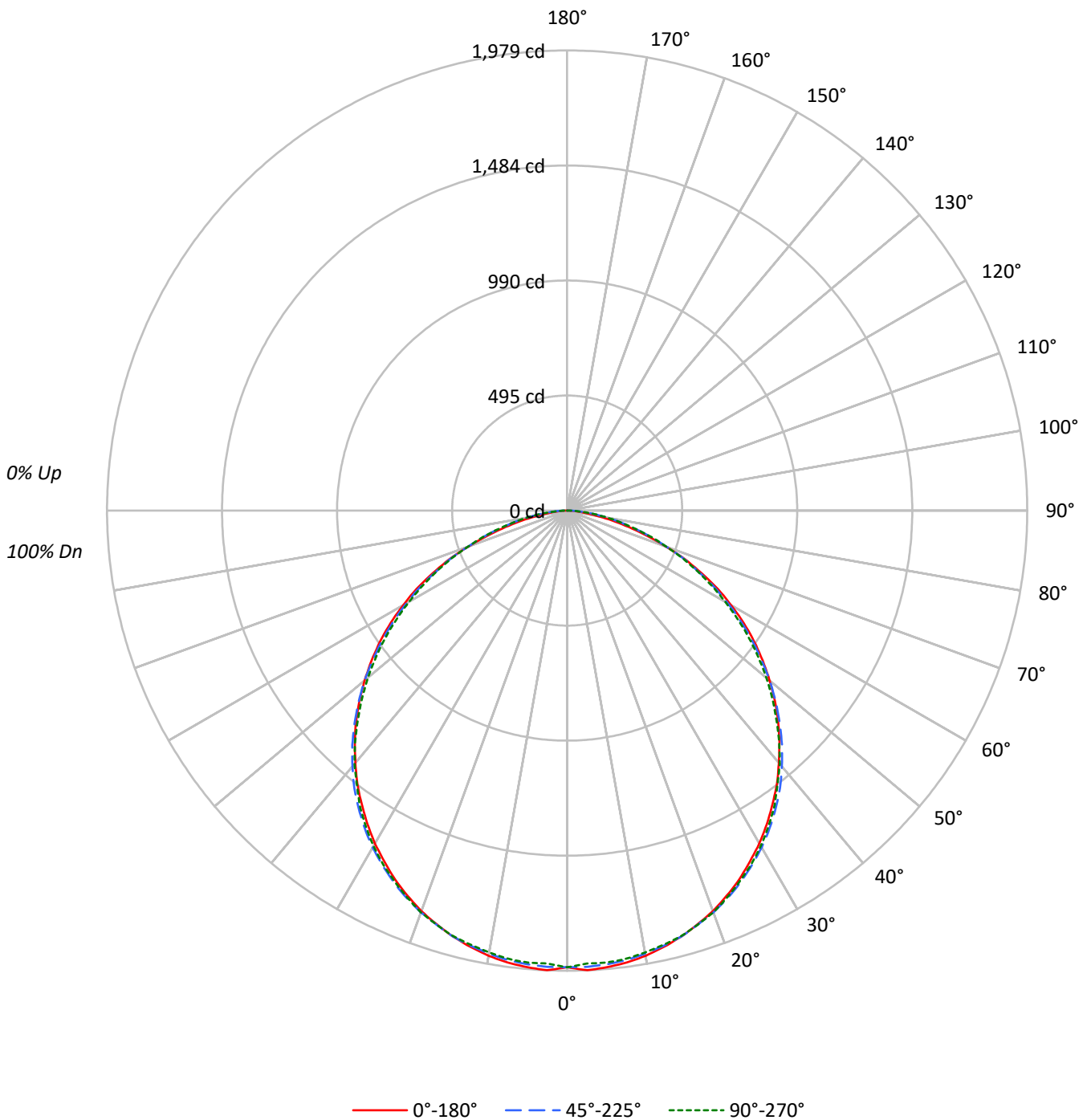
Input Watts (W): 61.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

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

	0°	45°	90°
0°	18908	18908	18908
5°	19051	18928	18858
10°	19004	18915	18863
15°	18904	18904	18886
20°	18780	18836	18836
25°	18602	18738	18680
30°	18376	18599	18518
35°	18103	18380	18252
40°	17803	18055	17872
45°	17480	17604	17332
50°	17023	17023	16751
55°	16483	16269	16024
60°	15687	15371	15126
65°	14500	14210	14085
70°	12695	12796	12746
75°	10214	11297	11364
80°	7257	9580	9680
85°	4418	8031	8031

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 17604 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	186.0	3.5
10°-20°	533.7	10.0
20°-30°	808.2	15.1
30°-40°	969.0	18.1
40°-50°	988.0	18.4
50°-60°	862.4	16.1
60°-70°	617.4	11.5
70°-80°	317.1	5.9
80°-90°	79.3	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°	1527.8	28.5
0°-40°	2496.9	46.6
0°-60°	4347.2	81.1
0°-90°	5361.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5361.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1964	1964	1964	1964	1964	
5°	1971	1951	1959	1953	1951	187
15°	1897	1880	1897	1897	1895	535
25°	1751	1738	1764	1758	1758	806
35°	1540	1537	1564	1553	1553	964
45°	1284	1280	1293	1277	1273	989
55°	982	969	969	955	955	876
65°	636	622	624	618	618	630
75°	275	287	304	306	306	296
85°	40	62	73	75	73	54
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1964.0	1964.0	1964.0	1964.0	1964.0
2.5°	1978.6	1956.7	1964.0	1958.6	1949.5
5°	1971.3	1951.3	1958.6	1953.1	1951.3
7.5°	1960.4	1940.4	1949.5	1945.8	1944.0
10°	1944.0	1924.0	1934.9	1931.3	1929.5
12.5°	1922.2	1904.0	1916.7	1913.1	1913.1
15°	1896.7	1880.4	1896.7	1896.7	1894.9
17.5°	1865.8	1851.3	1867.6	1869.5	1867.6
20°	1833.1	1816.7	1838.5	1836.7	1838.5
22.5°	1793.1	1780.3	1804.0	1798.5	1800.3
25°	1751.2	1738.5	1764.0	1758.5	1758.5
27.5°	1702.1	1693.1	1720.3	1714.9	1714.9
30°	1653.0	1644.0	1673.1	1665.8	1665.8
32.5°	1598.5	1593.0	1620.3	1611.2	1611.2
35°	1540.3	1536.7	1563.9	1553.0	1553.0
37.5°	1482.1	1478.5	1503.9	1491.2	1485.7
40°	1416.6	1414.8	1436.6	1422.1	1422.1
42.5°	1351.2	1349.4	1367.5	1349.4	1349.4
45°	1283.9	1280.2	1293.0	1276.6	1273.0
47.5°	1211.1	1207.5	1216.6	1198.4	1196.6
50°	1136.6	1132.9	1136.6	1120.2	1118.4
52.5°	1060.2	1052.9	1052.9	1036.6	1036.6
55°	982.0	969.3	969.3	954.7	954.7
57.5°	900.2	883.8	885.6	872.9	871.1
60°	814.7	796.5	798.3	787.4	785.6
62.5°	731.1	709.2	714.7	702.0	702.0
65°	636.5	621.9	623.8	618.3	618.3
67.5°	549.2	534.6	543.7	538.3	538.3
70°	451.0	441.9	454.6	454.6	452.8
72.5°	360.1	361.9	378.3	378.3	380.1
75°	274.6	287.3	303.7	305.5	305.5
77.5°	196.4	218.2	236.4	236.4	236.4
80°	130.9	156.4	172.8	176.4	174.6
82.5°	78.2	105.5	118.2	121.8	120.0
85°	40.0	61.8	72.7	74.6	72.7
87.5°	14.5	30.9	36.4	36.4	32.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)