

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: P688766

Luminaire Tested: SQ4R-PH1-125D-92765-1-UNV-STD-W-4\_5000K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688766  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2203-586-36)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/22/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4R-PH1-125D-92765-1-UNV-STD-W-4\_5000K  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE HEX 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: 4924.2 lumens  
Efficiency: N/A  
Efficacy: 80.3 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.22 / 1.28  
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')  
CIE Type: Direct

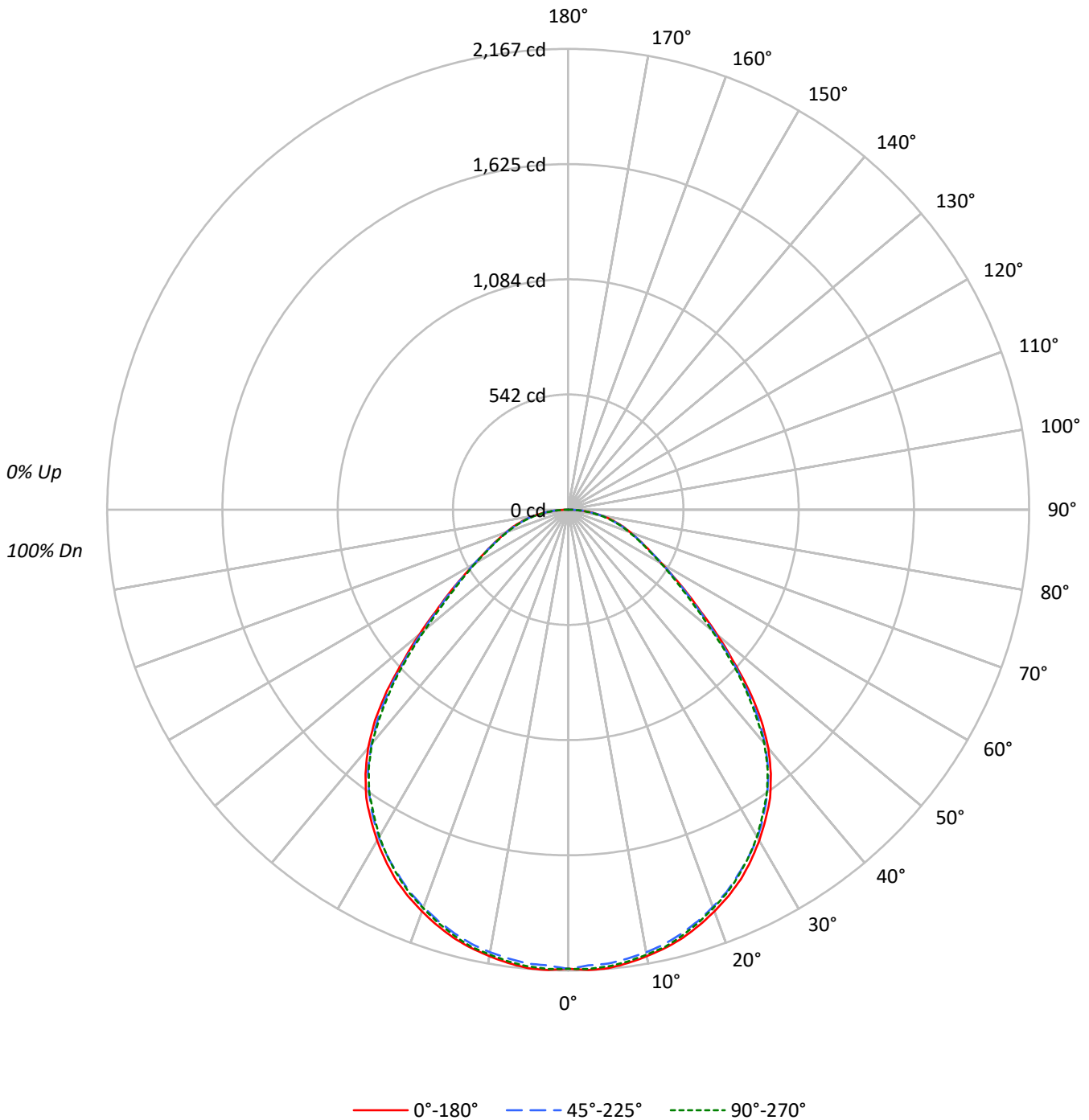
Input Watts (W): 61.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20										
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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86						86														
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74						74														
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64						64														
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	57	55						55														
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49						49														
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43						43														
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39						39														
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	35						35														
9	60	47	39	34	58	47	39	34	45	39	34	44	38	34	43	38	33	32						32														
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29						29														

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

	0°	45°	90°
0°	20783	20783	20783
5°	20914	20707	20837
10°	20843	20660	20765
15°	20772	20560	20665
20°	20588	20370	20424
25°	20384	20100	20156
30°	19969	19791	19732
35°	19451	19169	19138
40°	18388	18087	18019
45°	16401	16074	15893
50°	13691	13412	13132
55°	11407	11273	11004
60°	9801	9853	9647
65°	8985	8925	8802
70°	8704	8628	8478
75°	8823	8626	8425
80°	8865	8715	8422
85°	8539	8539	7953

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 16401 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	204.7	4.2
10°-20°	584.9	11.9
20°-30°	876.3	17.8
30°-40°	1019.6	20.7
40°-50°	906.8	18.4
50°-60°	608.9	12.4
60°-70°	393.6	8.0
70°-80°	245.3	5.0
80°-90°	84.1	1.7
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°	1665.9	33.8
0°-40°	2685.5	54.5
0°-60°	4201.2	85.3
0°-90°	4924.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4924.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2159	2159	2159	2159	2159	
5°	2164	2159	2143	2159	2156	205
15°	2084	2079	2063	2076	2073	588
25°	1919	1911	1892	1903	1898	882
35°	1655	1647	1631	1631	1628	1029
45°	1205	1199	1181	1165	1167	921
55°	680	680	672	661	656	616
65°	394	397	392	389	386	395
75°	237	234	232	232	226	250
85°	77	80	77	75	72	86
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2158.7	2158.7	2158.7	2158.7	2158.7
2.5°	2166.7	2161.4	2145.4	2164.1	2161.4
5°	2164.1	2158.7	2142.7	2158.7	2156.1
7.5°	2150.7	2148.1	2129.4	2148.1	2142.7
10°	2132.1	2132.1	2113.4	2129.4	2124.1
12.5°	2110.8	2108.1	2092.1	2108.1	2105.4
15°	2084.1	2078.8	2062.8	2076.1	2073.4
17.5°	2049.5	2046.8	2028.1	2041.5	2036.1
20°	2009.5	2004.2	1988.2	1998.8	1993.5
22.5°	1966.8	1961.5	1945.5	1953.5	1950.8
25°	1918.9	1910.9	1892.2	1902.9	1897.5
27.5°	1860.2	1857.6	1838.9	1844.2	1838.9
30°	1796.3	1793.6	1780.3	1780.3	1775.0
32.5°	1727.0	1729.6	1708.3	1711.0	1700.3
35°	1655.0	1647.0	1631.0	1631.0	1628.4
37.5°	1564.4	1559.1	1545.8	1543.1	1540.4
40°	1463.1	1457.8	1439.2	1433.8	1433.8
42.5°	1343.2	1337.9	1319.2	1311.2	1300.6
45°	1204.6	1199.3	1180.6	1164.6	1167.3
47.5°	1050.0	1055.4	1036.7	1023.4	1020.7
50°	914.1	911.5	895.5	887.5	876.8
52.5°	783.5	786.2	772.9	767.5	754.2
55°	679.6	679.6	671.6	660.9	655.6
57.5°	586.3	591.7	583.7	578.3	573.0
60°	509.0	511.7	511.7	501.0	501.0
62.5°	445.1	447.7	445.1	439.7	439.7
65°	394.4	397.1	391.8	389.1	386.4
67.5°	349.1	351.8	349.1	346.5	341.1
70°	309.2	309.2	306.5	306.5	301.2
72.5°	274.5	271.8	269.2	269.2	266.5
75°	237.2	234.5	231.9	231.9	226.5
77.5°	199.9	197.2	197.2	191.9	189.2
80°	159.9	159.9	157.2	154.6	151.9
82.5°	122.6	119.9	117.3	114.6	111.9
85°	77.3	80.0	77.3	74.6	72.0
87.5°	34.6	37.3	37.3	37.3	34.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)