

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: P688922

Luminaire Tested: SQ4R-PR1-125D-92765-1-UNV-STD-W-4\_5000K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688922  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/22/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4R-PR1-125D-92765-1-UNV-STD-W-4\_5000K  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE RIPPLE 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: 4760.1 lumens  
Efficiency: N/A  
Efficacy: 77.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.23 / 1.34  
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')  
CIE Type: Direct

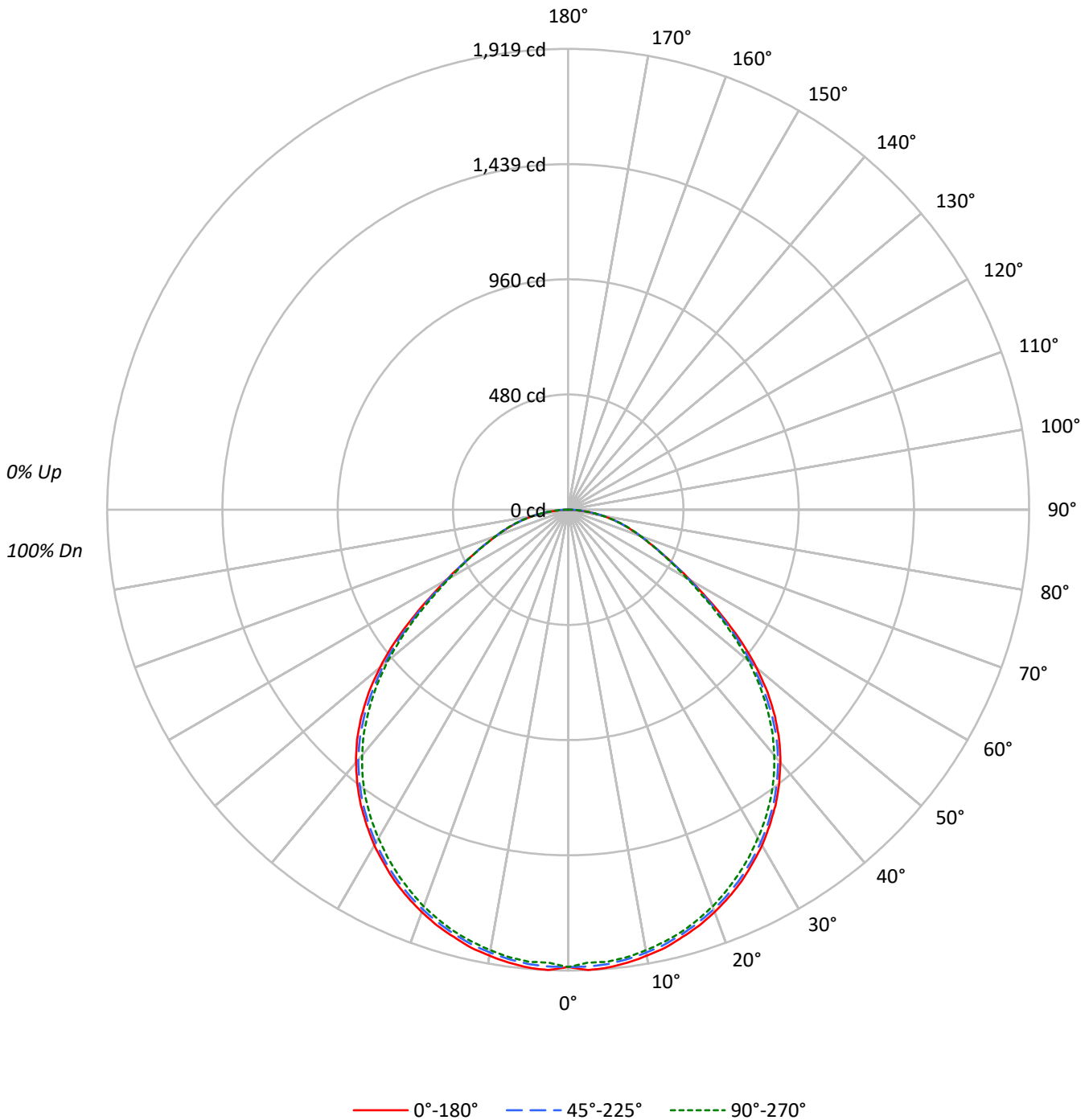
Input Watts (W): 61.3  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37
8	63	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27

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

	0°	45°	90°
0°	18331	18331	18331
5°	18496	18353	18258
10°	18437	18309	18213
15°	18356	18243	18144
20°	18264	18146	18012
25°	18136	18014	17805
30°	17940	17812	17557
35°	17675	17521	17271
40°	17272	17087	16778
45°	16568	16278	15943
50°	15328	14960	14664
55°	13379	13075	12800
60°	11274	11179	10958
65°	9750	9789	9713
70°	8957	9002	9002
75°	8600	8600	8663
80°	8094	8183	8094
85°	6517	7246	7246

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 16568 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.2	3.8
10°-20°	515.5	10.8
20°-30°	777.4	16.3
30°-40°	926.5	19.5
40°-50°	914.0	19.2
50°-60°	697.2	14.6
60°-70°	430.3	9.0
70°-80°	245.2	5.2
80°-90°	74.0	1.6
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°	1473.0	30.9
0°-40°	2399.5	50.4
0°-60°	4010.7	84.3
0°-90°	4760.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4760.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1904	1904	1904	1904	1904	
5°	1914	1893	1899	1893	1889	182
15°	1842	1822	1830	1824	1820	520
25°	1707	1686	1696	1678	1676	786
35°	1504	1486	1491	1471	1470	939
45°	1217	1200	1196	1174	1171	934
55°	797	784	779	766	763	714
65°	428	425	430	426	426	432
75°	231	231	231	233	233	244
85°	59	62	66	66	66	70
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1904.1	1904.1	1904.1	1904.1	1904.1
2.5°	1918.8	1897.5	1904.1	1899.1	1887.7
5°	1913.9	1892.6	1899.1	1892.6	1889.3
7.5°	1902.4	1881.1	1887.7	1881.1	1879.5
10°	1886.0	1866.3	1872.9	1866.3	1863.1
12.5°	1868.0	1846.7	1854.9	1846.7	1843.4
15°	1841.7	1822.1	1830.3	1823.7	1820.4
17.5°	1815.5	1794.2	1802.4	1795.8	1790.9
20°	1782.7	1763.0	1771.2	1759.7	1758.1
22.5°	1746.6	1726.9	1735.1	1718.7	1718.7
25°	1707.3	1685.9	1695.8	1677.7	1676.1
27.5°	1661.3	1641.7	1649.9	1631.8	1630.2
30°	1613.8	1594.1	1602.3	1582.6	1579.3
32.5°	1559.7	1541.6	1548.2	1528.5	1526.9
35°	1503.9	1485.9	1490.8	1471.1	1469.5
37.5°	1441.6	1425.2	1428.5	1407.1	1405.5
40°	1374.3	1357.9	1359.6	1336.6	1335.0
42.5°	1300.5	1284.1	1282.5	1259.5	1257.9
45°	1216.9	1200.5	1195.6	1174.3	1171.0
47.5°	1125.1	1108.7	1098.8	1080.8	1079.1
50°	1023.4	1007.0	998.8	984.0	979.1
52.5°	913.5	897.1	890.5	877.4	872.5
55°	797.1	783.9	779.0	765.9	762.6
57.5°	685.5	675.7	674.0	660.9	659.3
60°	585.5	580.6	580.6	569.1	569.1
62.5°	500.2	496.9	500.2	493.6	492.0
65°	428.0	424.8	429.7	426.4	426.4
67.5°	367.4	367.4	370.6	369.0	369.0
70°	318.2	318.2	319.8	319.8	319.8
72.5°	273.9	272.2	277.2	277.2	275.5
75°	231.2	231.2	231.2	232.9	232.9
77.5°	188.6	188.6	190.2	190.2	188.6
80°	146.0	147.6	147.6	146.0	146.0
82.5°	103.3	105.0	105.0	105.0	103.3
85°	59.0	62.3	65.6	65.6	65.6
87.5°	21.3	27.9	32.8	32.8	31.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)