

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: P688592

Luminaire Tested: SQ4R-PR1-125D-840-1-UNV-STD-W-4

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688592  
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-840-1-UNV-STD-W-4  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
1250 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4973.7 lumens  
Efficiency: N/A  
Efficacy: 100.5 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

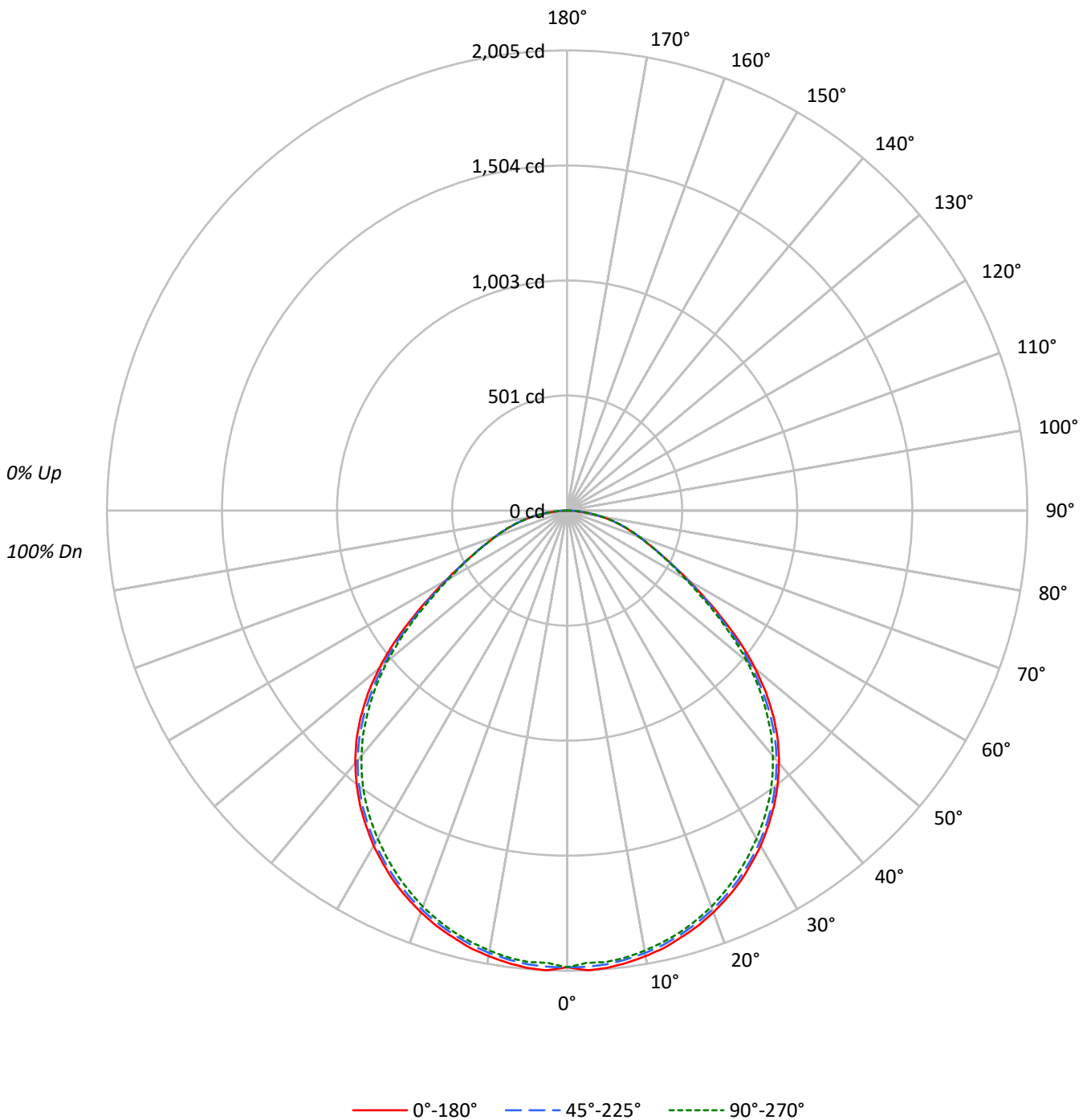
Input Watts (W): 49.5  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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°	19154	19154	19154
5°	19326	19177	19078
10°	19265	19131	19031
15°	19180	19061	18958
20°	19084	18961	18820
25°	18950	18822	18603
30°	18745	18612	18345
35°	18468	18307	18045
40°	18047	17854	17531
45°	17312	17008	16658
50°	16015	15631	15322
55°	13978	13663	13374
60°	11780	11680	11449
65°	10190	10228	10149
70°	9357	9407	9407
75°	8987	8987	9050
80°	8455	8549	8455
85°	6815	7567	7567

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 17312 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	188.2	3.8
10°-20°	538.6	10.8
20°-30°	812.3	16.3
30°-40°	968.1	19.5
40°-50°	955.0	19.2
50°-60°	728.5	14.6
60°-70°	449.6	9.0
70°-80°	256.2	5.2
80°-90°	77.3	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°	1539.1	30.9
0°-40°	2507.2	50.4
0°-60°	4190.6	84.3
0°-90°	4973.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4973.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1990	1990	1990	1990	1990	
5°	2000	1978	1984	1978	1974	190
15°	1924	1904	1912	1906	1902	543
25°	1784	1762	1772	1753	1751	821
35°	1571	1552	1558	1537	1535	981
45°	1272	1254	1249	1227	1224	976
55°	833	819	814	800	797	746
65°	447	444	449	446	446	451
75°	242	242	242	243	243	255
85°	62	65	68	68	68	73
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1989.5	1989.5	1989.5	1989.5	1989.5
2.5°	2004.9	1982.7	1989.5	1984.4	1972.4
5°	1999.8	1977.5	1984.4	1977.5	1974.1
7.5°	1987.8	1965.5	1972.4	1965.5	1963.8
10°	1970.7	1950.1	1957.0	1950.1	1946.7
12.5°	1951.8	1929.5	1938.1	1929.5	1926.1
15°	1924.4	1903.8	1912.4	1905.5	1902.1
17.5°	1897.0	1874.7	1883.3	1876.4	1871.3
20°	1862.7	1842.1	1850.7	1838.7	1837.0
22.5°	1825.0	1804.4	1813.0	1795.9	1795.9
25°	1783.9	1761.6	1771.9	1753.0	1751.3
27.5°	1735.9	1715.3	1723.9	1705.0	1703.3
30°	1686.2	1665.6	1674.2	1653.6	1650.2
32.5°	1629.7	1610.8	1617.7	1597.1	1595.4
35°	1571.4	1552.5	1557.7	1537.1	1535.4
37.5°	1506.3	1489.1	1492.6	1470.3	1468.6
40°	1436.0	1418.9	1420.6	1396.6	1394.9
42.5°	1358.9	1341.8	1340.0	1316.1	1314.3
45°	1271.5	1254.4	1249.2	1227.0	1223.5
47.5°	1175.5	1158.4	1148.1	1129.3	1127.6
50°	1069.3	1052.2	1043.6	1028.2	1023.0
52.5°	954.5	937.3	930.5	916.8	911.6
55°	832.8	819.1	814.0	800.3	796.8
57.5°	716.3	706.0	704.3	690.6	688.9
60°	611.8	606.6	606.6	594.6	594.6
62.5°	522.7	519.2	522.7	515.8	514.1
65°	447.3	443.8	449.0	445.5	445.5
67.5°	383.9	383.9	387.3	385.6	385.6
70°	332.4	332.4	334.2	334.2	334.2
72.5°	286.2	284.5	289.6	289.6	287.9
75°	241.6	241.6	241.6	243.3	243.3
77.5°	197.1	197.1	198.8	198.8	197.1
80°	152.5	154.2	154.2	152.5	152.5
82.5°	108.0	109.7	109.7	109.7	108.0
85°	61.7	65.1	68.5	68.5	68.5
87.5°	22.3	29.1	34.3	34.3	32.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)