

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: P688845

Luminaire Tested: SQ4R-PP3-125D-92765-1-UNV-STD-W-4\_5700K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688845  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/22/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4R-PP3-125D-92765-1-UNV-STD-W-4\_5700K  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
1250 LUMENS PER FOOT  
Light Source: 5700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5140.4 lumens  
Efficiency: N/A  
Efficacy: 83.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')  
CIE Type: Direct

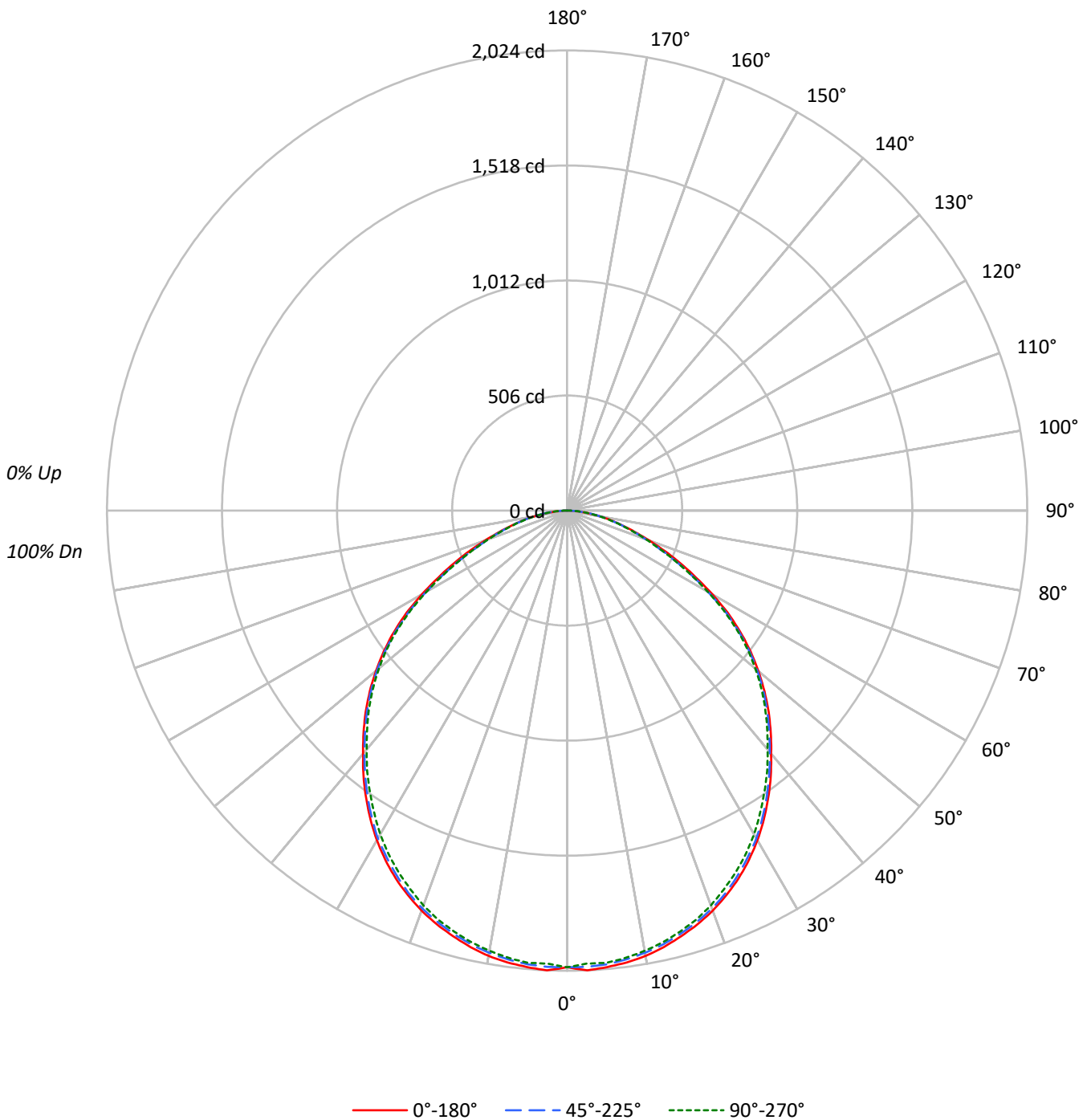
Input Watts (W): 61.3  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot



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

RF	20				20				20			20				20			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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85	85	85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72	72	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61	61	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53	53	53
5	77	65	56	50	75	64	56	50	62	55	49	60	53	48	58	52	48	46	46	46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40	40	40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36	36	36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32	32	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29	29	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26	26	26

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

	0°	45°	90°
0°	19337	19337	19337
5°	19478	19359	19292
10°	19445	19307	19221
15°	19317	19211	19107
20°	19188	19081	18936
25°	18960	18830	18643
30°	18609	18512	18277
35°	18123	17999	17771
40°	17543	17433	17234
45°	17064	16944	16777
50°	16451	16346	16188
55°	15600	15393	15276
60°	14202	13794	13727
65°	12511	11989	11951
70°	10801	10356	10356
75°	9299	9165	9035
80°	8200	8294	8100
85°	6418	7003	7003

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 17064 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	190.0	3.7
10°-20°	542.6	10.6
20°-30°	812.7	15.8
30°-40°	953.2	18.5
40°-50°	956.2	18.6
50°-60°	816.4	15.9
60°-70°	530.6	10.3
70°-80°	265.7	5.2
80°-90°	72.9	1.4
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°	1545.4	30.1
0°-40°	2498.6	48.6
0°-60°	4271.2	83.1
0°-90°	5140.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5140.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2008	2008	2008	2008	2008	
5°	2016	1996	2003	1996	1996	192
15°	1938	1919	1928	1920	1917	547
25°	1785	1764	1773	1757	1755	821
35°	1542	1526	1532	1514	1512	964
45°	1253	1244	1244	1232	1232	966
55°	929	926	917	912	910	827
65°	549	539	526	523	525	547
75°	250	250	246	245	243	270
85°	58	63	63	63	63	69
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2008.5	2008.5	2008.5	2008.5	2008.5
2.5°	2024.3	2003.2	2008.5	2005.0	1994.4
5°	2015.5	1996.2	2003.2	1996.2	1996.2
7.5°	2005.0	1983.8	1990.9	1983.8	1983.8
10°	1989.1	1968.0	1975.0	1968.0	1966.2
12.5°	1966.2	1945.1	1953.9	1945.1	1945.1
15°	1938.1	1918.7	1927.5	1920.5	1917.0
17.5°	1908.2	1887.0	1897.6	1888.8	1887.0
20°	1872.9	1851.8	1862.4	1848.3	1848.3
22.5°	1830.7	1809.6	1821.9	1802.5	1802.5
25°	1784.9	1763.8	1772.6	1756.8	1755.0
27.5°	1732.1	1711.0	1719.8	1702.2	1702.2
30°	1674.0	1654.7	1665.2	1645.9	1644.1
32.5°	1610.7	1593.1	1600.1	1580.7	1579.0
35°	1542.0	1526.2	1531.5	1513.9	1512.1
37.5°	1471.6	1454.0	1461.0	1445.2	1445.2
40°	1395.9	1385.3	1387.1	1374.8	1371.3
42.5°	1325.5	1313.2	1314.9	1302.6	1302.6
45°	1253.3	1244.5	1244.5	1232.2	1232.2
47.5°	1177.6	1170.6	1168.8	1158.3	1158.3
50°	1098.4	1093.1	1091.4	1082.6	1080.8
52.5°	1015.7	1013.9	1006.9	999.8	999.8
55°	929.4	925.9	917.1	911.8	910.1
57.5°	837.9	830.9	822.1	813.3	815.0
60°	737.6	730.5	716.4	712.9	712.9
62.5°	640.7	631.9	617.9	612.6	616.1
65°	549.2	538.6	526.3	522.8	524.6
67.5°	464.7	454.2	440.1	440.1	438.3
70°	383.7	378.5	367.9	367.9	367.9
72.5°	311.6	309.8	302.8	302.8	301.0
75°	250.0	250.0	246.4	244.7	242.9
77.5°	197.2	197.2	195.4	193.6	190.1
80°	147.9	151.4	149.6	147.9	146.1
82.5°	102.1	105.6	105.6	102.1	102.1
85°	58.1	63.4	63.4	63.4	63.4
87.5°	19.4	26.4	28.2	28.2	29.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)