

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: P688844

Luminaire Tested: SQ4R-PP3-125D-92765-1-UNV-STD-W-4_5000K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688844
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_5000K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM 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: 5026.2 lumens
Efficiency: N/A
Efficacy: 82.0 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

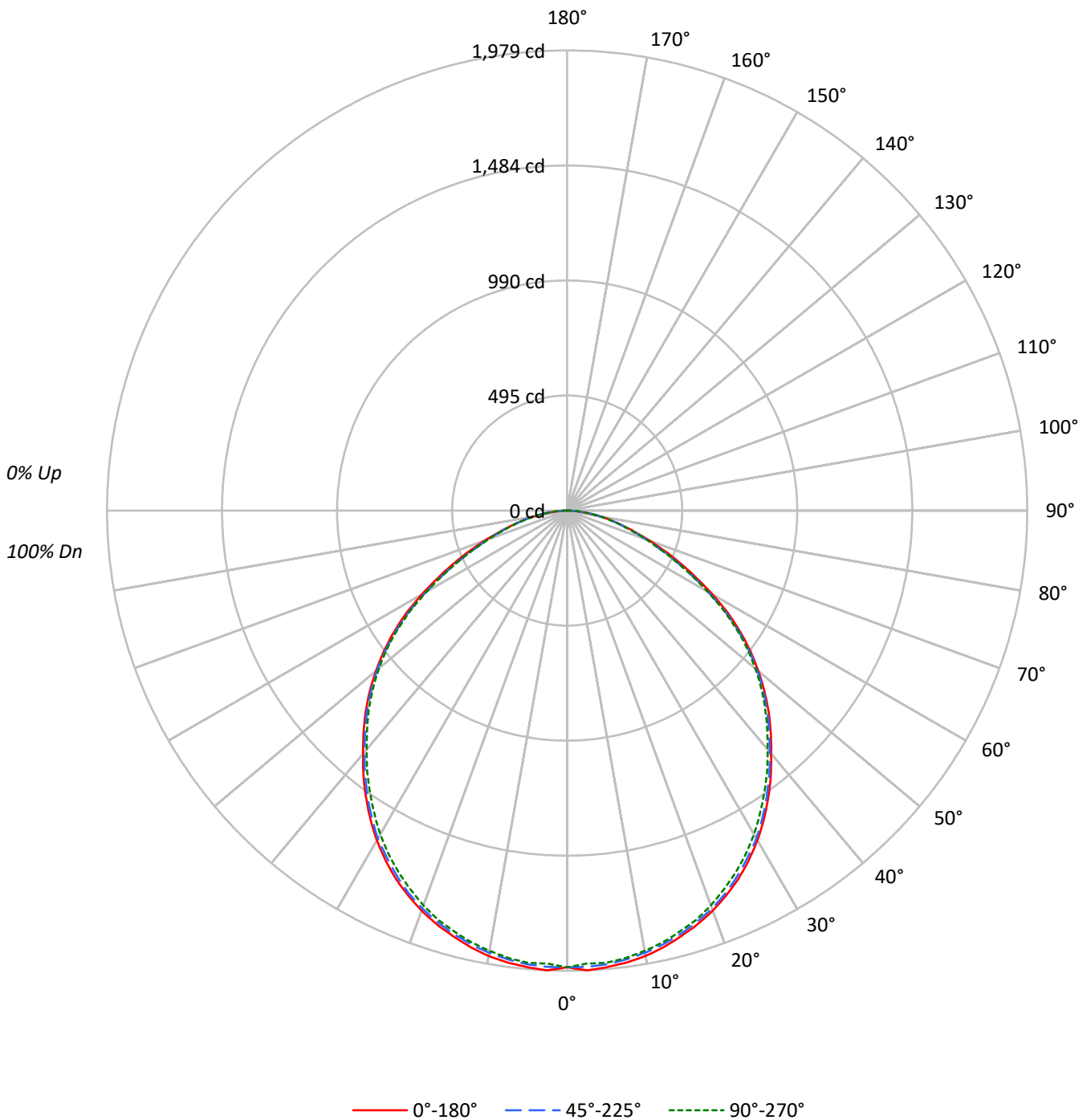
Input Watts (W): 61.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	18907	18907	18907
5°	19045	18929	18862
10°	19013	18878	18794
15°	18887	18785	18681
20°	18762	18657	18515
25°	18540	18411	18228
30°	18196	18100	17871
35°	17720	17599	17377
40°	17154	17045	16851
45°	16685	16568	16403
50°	16086	15982	15828
55°	15254	15051	14935
60°	13886	13488	13422
65°	12233	11723	11684
70°	10561	10125	10125
75°	9091	8965	8834
80°	8017	8111	7923
85°	6274	6849	6849

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16685 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.8	3.7
10°-20°	530.5	10.6
20°-30°	794.7	15.8
30°-40°	932.0	18.5
40°-50°	934.9	18.6
50°-60°	798.3	15.9
60°-70°	518.8	10.3
70°-80°	259.8	5.2
80°-90°	71.3	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°	1511.0	30.1
0°-40°	2443.1	48.6
0°-60°	4176.3	83.1
0°-90°	5026.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5026.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1964	1964	1964	1964	1964	
5°	1971	1952	1959	1952	1952	187
15°	1895	1876	1885	1878	1874	535
25°	1745	1725	1733	1718	1716	803
35°	1508	1492	1497	1480	1478	942
45°	1226	1217	1217	1205	1205	944
55°	909	905	897	892	890	809
65°	537	527	515	511	513	535
75°	244	244	241	239	238	264
85°	57	62	62	62	62	67
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1963.9	1963.9	1963.9	1963.9	1963.9
2.5°	1979.3	1958.7	1963.9	1960.4	1950.1
5°	1970.7	1951.8	1958.7	1951.8	1951.8
7.5°	1960.4	1939.8	1946.6	1939.8	1939.8
10°	1944.9	1924.3	1931.1	1924.3	1922.5
12.5°	1922.5	1901.9	1910.5	1901.9	1901.9
15°	1895.0	1876.1	1884.7	1877.8	1874.3
17.5°	1865.7	1845.1	1855.4	1846.8	1845.1
20°	1831.3	1810.7	1821.0	1807.2	1807.2
22.5°	1790.0	1769.4	1781.4	1762.5	1762.5
25°	1745.3	1724.6	1733.2	1717.7	1716.0
27.5°	1693.6	1673.0	1681.6	1664.4	1664.4
30°	1636.8	1617.9	1628.2	1609.3	1607.6
32.5°	1574.9	1557.7	1564.5	1545.6	1543.9
35°	1507.7	1492.3	1497.4	1480.2	1478.5
37.5°	1438.9	1421.7	1428.6	1413.1	1413.1
40°	1364.9	1354.6	1356.3	1344.2	1340.8
42.5°	1296.0	1284.0	1285.7	1273.7	1273.7
45°	1225.5	1216.9	1216.9	1204.8	1204.8
47.5°	1151.5	1144.6	1142.9	1132.5	1132.5
50°	1074.0	1068.8	1067.1	1058.5	1056.8
52.5°	993.1	991.4	984.5	977.6	977.6
55°	908.8	905.3	896.7	891.6	889.8
57.5°	819.3	812.4	803.8	795.2	796.9
60°	721.2	714.3	700.5	697.1	697.1
62.5°	626.5	617.9	604.1	599.0	602.4
65°	537.0	526.7	514.6	511.2	512.9
67.5°	454.4	444.1	430.3	430.3	428.6
70°	375.2	370.1	359.7	359.7	359.7
72.5°	304.6	302.9	296.0	296.0	294.3
75°	244.4	244.4	241.0	239.2	237.5
77.5°	192.8	192.8	191.0	189.3	185.9
80°	144.6	148.0	146.3	144.6	142.9
82.5°	99.8	103.3	103.3	99.8	99.8
85°	56.8	62.0	62.0	62.0	62.0
87.5°	18.9	25.8	27.5	27.5	29.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)