

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: P688846

Luminaire Tested: SQ4R-PP3-125D-92765-1-UNV-STD-W-4_6500K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688846
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_6500K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
1250 LUMENS PER FOOT
Light Source: 6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5248.2 lumens
Efficiency: N/A
Efficacy: 85.8 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

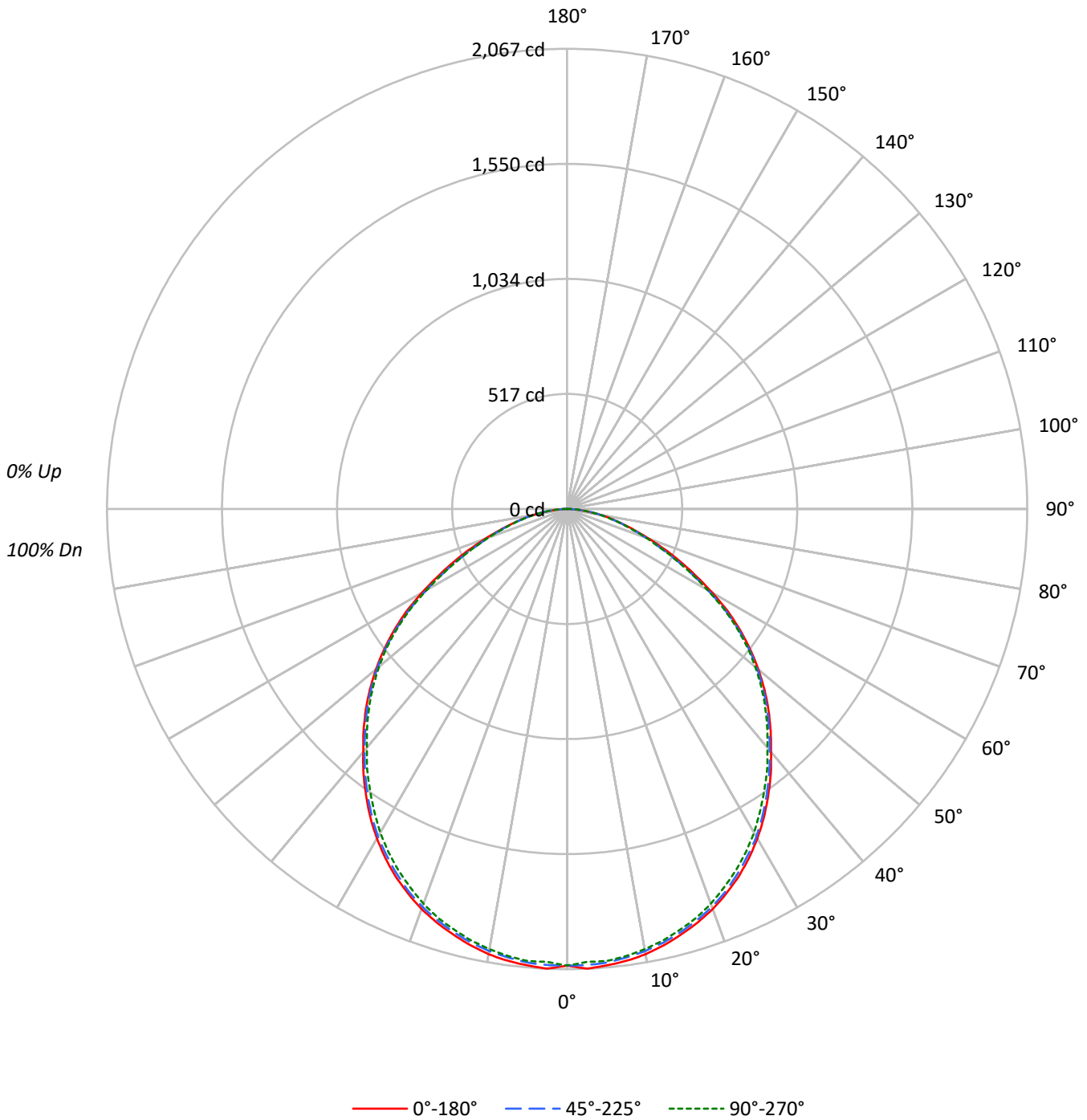
Input Watts (W): 61.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19742	19742	19742
5°	19887	19765	19695
10°	19853	19712	19624
15°	19722	19614	19506
20°	19591	19480	19333
25°	19358	19225	19034
30°	19000	18899	18660
35°	18502	18376	18144
40°	17911	17798	17595
45°	17422	17299	17128
50°	16796	16688	16528
55°	15927	15716	15595
60°	14499	14085	14015
65°	12773	12242	12201
70°	11029	10573	10573
75°	9493	9359	9225
80°	8372	8471	8272
85°	6550	7147	7147

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17422 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.0	3.7
10°-20°	554.0	10.6
20°-30°	829.8	15.8
30°-40°	973.2	18.5
40°-50°	976.2	18.6
50°-60°	833.5	15.9
60°-70°	541.8	10.3
70°-80°	271.3	5.2
80°-90°	74.4	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°	1577.8	30.1
0°-40°	2551.0	48.6
0°-60°	4360.7	83.1
0°-90°	5248.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5248.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2051	2051	2051	2051	2051	
5°	2058	2038	2045	2038	2038	196
15°	1979	1959	1968	1961	1957	559
25°	1822	1801	1810	1794	1792	839
35°	1574	1558	1564	1546	1544	984
45°	1280	1271	1271	1258	1258	986
55°	949	945	936	931	929	844
65°	561	550	537	534	536	559
75°	255	255	252	250	248	276
85°	59	65	65	65	65	70
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2050.6	2050.6	2050.6	2050.6	2050.6
2.5°	2066.8	2045.2	2050.6	2047.0	2036.2
5°	2057.8	2038.0	2045.2	2038.0	2038.0
7.5°	2047.0	2025.4	2032.6	2025.4	2025.4
10°	2030.8	2009.2	2016.4	2009.2	2007.4
12.5°	2007.4	1985.9	1994.9	1985.9	1985.9
15°	1978.7	1958.9	1967.9	1960.7	1957.1
17.5°	1948.1	1926.6	1937.4	1928.4	1926.6
20°	1912.2	1890.6	1901.4	1887.0	1887.0
22.5°	1869.1	1847.5	1860.1	1840.3	1840.3
25°	1822.3	1800.8	1809.8	1793.6	1791.8
27.5°	1768.4	1746.9	1755.8	1737.9	1737.9
30°	1709.1	1689.3	1700.1	1680.4	1678.6
32.5°	1644.4	1626.4	1633.6	1613.9	1612.1
35°	1574.3	1558.2	1563.5	1545.6	1543.8
37.5°	1502.4	1484.5	1491.7	1475.5	1475.5
40°	1425.2	1414.4	1416.2	1403.6	1400.0
42.5°	1353.3	1340.7	1342.5	1329.9	1329.9
45°	1279.6	1270.6	1270.6	1258.0	1258.0
47.5°	1202.3	1195.1	1193.3	1182.5	1182.5
50°	1121.4	1116.0	1114.2	1105.3	1103.5
52.5°	1037.0	1035.2	1028.0	1020.8	1020.8
55°	948.9	945.3	936.3	930.9	929.1
57.5°	855.5	848.3	839.3	830.3	832.1
60°	753.0	745.8	731.5	727.9	727.9
62.5°	654.2	645.2	630.8	625.4	629.0
65°	560.7	549.9	537.4	533.8	535.6
67.5°	474.5	463.7	449.3	449.3	447.5
70°	391.8	386.4	375.6	375.6	375.6
72.5°	318.1	316.3	309.1	309.1	307.3
75°	255.2	255.2	251.6	249.8	248.0
77.5°	201.3	201.3	199.5	197.7	194.1
80°	151.0	154.6	152.8	151.0	149.2
82.5°	104.2	107.8	107.8	104.2	104.2
85°	59.3	64.7	64.7	64.7	64.7
87.5°	19.8	27.0	28.8	28.8	30.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)