

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: P688843

Luminaire Tested: SQ4R-PP3-125D-92765-1-UNV-STD-W-4_4500K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688843
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_4500K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
1250 LUMENS PER FOOT
Light Source: 4500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4929.4 lumens
Efficiency: N/A
Efficacy: 80.5 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

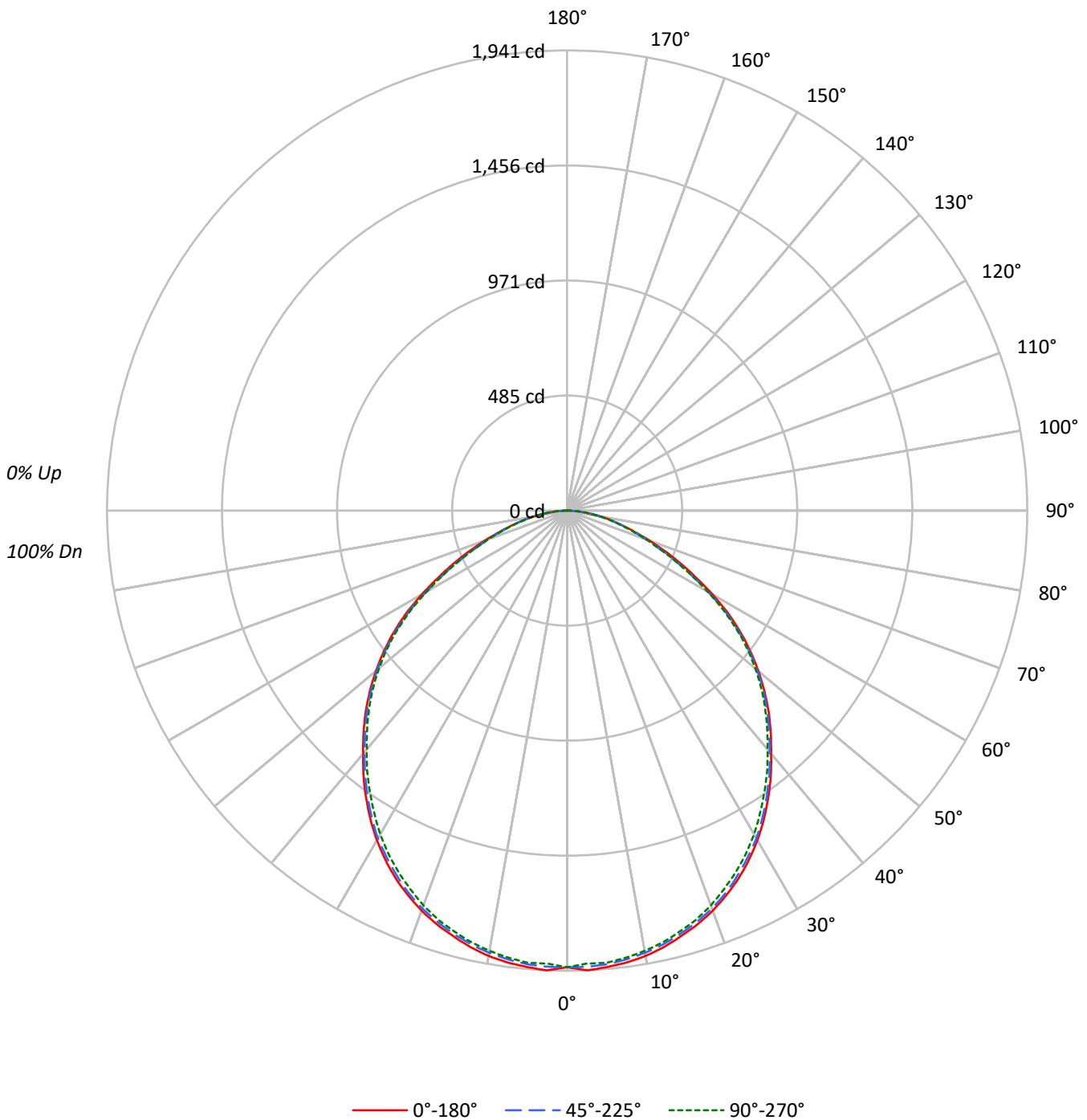
Input Watts (W): 61.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18542	18542	18542
5°	18679	18565	18499
10°	18647	18515	18432
15°	18524	18423	18322
20°	18401	18297	18159
25°	18183	18056	17878
30°	17846	17752	17527
35°	17379	17260	17042
40°	16823	16717	16526
45°	16364	16248	16088
50°	15776	15675	15523
55°	14960	14762	14648
60°	13619	13228	13163
65°	11998	11497	11458
70°	10359	9931	9931
75°	8916	8790	8663
80°	7862	7956	7767
85°	6153	6716	6716

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16364 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.2	3.7
10°-20°	520.3	10.6
20°-30°	779.4	15.8
30°-40°	914.1	18.5
40°-50°	916.9	18.6
50°-60°	782.9	15.9
60°-70°	508.8	10.3
70°-80°	254.8	5.2
80°-90°	69.9	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°	1481.9	30.1
0°-40°	2396.0	48.6
0°-60°	4095.9	83.1
0°-90°	4929.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4929.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1926	1926	1926	1926	1926	
5°	1933	1914	1921	1914	1914	184
15°	1858	1840	1848	1842	1838	525
25°	1712	1691	1700	1685	1683	788
35°	1479	1464	1469	1452	1450	924
45°	1202	1193	1193	1182	1182	926
55°	891	888	880	874	873	793
65°	527	516	505	501	503	525
75°	240	240	236	235	233	259
85°	56	61	61	61	61	66
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1926.0	1926.0	1926.0	1926.0	1926.0
2.5°	1941.2	1921.0	1926.0	1922.7	1912.5
5°	1932.8	1914.2	1921.0	1914.2	1914.2
7.5°	1922.7	1902.4	1909.2	1902.4	1902.4
10°	1907.5	1887.2	1894.0	1887.2	1885.5
12.5°	1885.5	1865.3	1873.7	1865.3	1865.3
15°	1858.5	1839.9	1848.4	1841.6	1838.3
17.5°	1829.8	1809.6	1819.7	1811.2	1809.6
20°	1796.1	1775.8	1785.9	1772.4	1772.4
22.5°	1755.5	1735.3	1747.1	1728.5	1728.5
25°	1711.7	1691.4	1699.8	1684.6	1683.0
27.5°	1661.0	1640.8	1649.2	1632.3	1632.3
30°	1605.3	1586.7	1596.9	1578.3	1576.6
32.5°	1544.5	1527.7	1534.4	1515.8	1514.2
35°	1478.7	1463.5	1468.6	1451.7	1450.0
37.5°	1411.2	1394.3	1401.1	1385.9	1385.9
40°	1338.6	1328.5	1330.2	1318.3	1315.0
42.5°	1271.1	1259.3	1261.0	1249.1	1249.1
45°	1201.9	1193.4	1193.4	1181.6	1181.6
47.5°	1129.3	1122.5	1120.8	1110.7	1110.7
50°	1053.3	1048.3	1046.6	1038.1	1036.4
52.5°	974.0	972.3	965.5	958.8	958.8
55°	891.3	887.9	879.5	874.4	872.7
57.5°	803.5	796.7	788.3	779.9	781.6
60°	707.3	700.5	687.0	683.6	683.6
62.5°	614.4	606.0	592.5	587.4	590.8
65°	526.7	516.5	504.7	501.3	503.0
67.5°	445.6	435.5	422.0	422.0	420.3
70°	368.0	362.9	352.8	352.8	352.8
72.5°	298.8	297.1	290.3	290.3	288.7
75°	239.7	239.7	236.3	234.6	232.9
77.5°	189.1	189.1	187.4	185.7	182.3
80°	141.8	145.2	143.5	141.8	140.1
82.5°	97.9	101.3	101.3	97.9	97.9
85°	55.7	60.8	60.8	60.8	60.8
87.5°	18.6	25.3	27.0	27.0	28.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)