

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: P688921

Luminaire Tested: SQ4R-PR1-125D-92765-1-UNV-STD-W-4_4500K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688921
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-92765-1-UNV-STD-W-4_4500K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE RIPPLE 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: 4668.4 lumens
Efficiency: N/A
Efficacy: 76.3 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

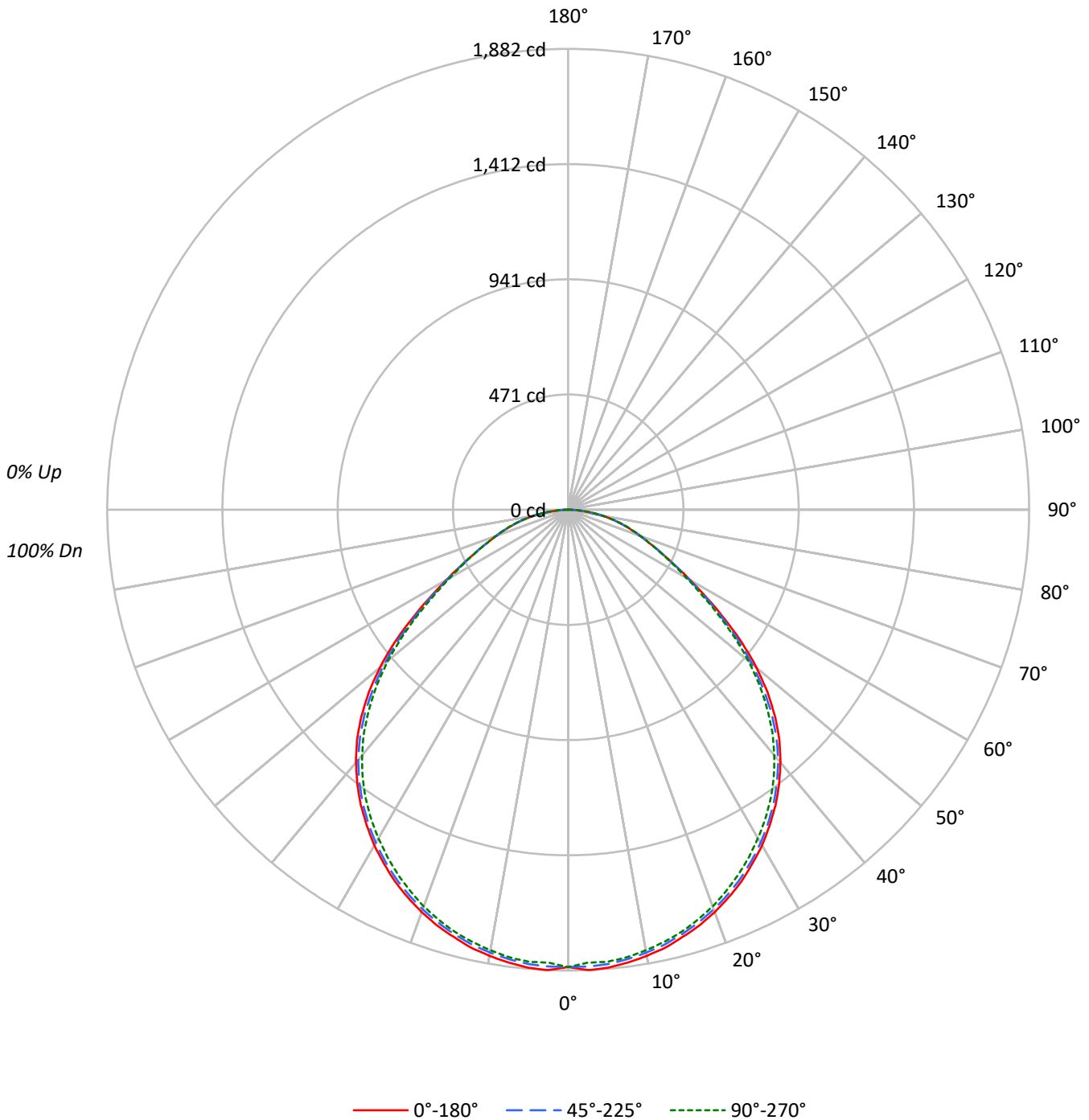
Input Watts (W): 61.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85						85														
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72						72														
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62						62														
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54						54														
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47						47														
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41						41														
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37						37														
8	63	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35	33						33														
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30						30														
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27						27														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17978	17978	17978
5°	18141	18000	17907
10°	18082	17956	17862
15°	18003	17891	17795
20°	17913	17797	17665
25°	17786	17666	17461
30°	17594	17469	17219
35°	17334	17184	16938
40°	16940	16758	16455
45°	16250	15965	15636
50°	15033	14670	14381
55°	13121	12824	12553
60°	11056	10964	10746
65°	9563	9600	9527
70°	8782	8827	8827
75°	8436	8436	8496
80°	7939	8028	7939
85°	6396	7103	7103

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16250 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.7	3.8
10°-20°	505.5	10.8
20°-30°	762.4	16.3
30°-40°	908.7	19.5
40°-50°	896.4	19.2
50°-60°	683.8	14.6
60°-70°	422.0	9.0
70°-80°	240.5	5.2
80°-90°	72.5	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°	1444.6	30.9
0°-40°	2353.3	50.4
0°-60°	3933.4	84.3
0°-90°	4668.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4668.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1867	1867	1867	1867	1867	
5°	1877	1856	1863	1856	1853	178
15°	1806	1787	1795	1789	1785	510
25°	1674	1654	1663	1645	1644	771
35°	1475	1457	1462	1443	1441	921
45°	1194	1177	1173	1152	1148	916
55°	782	769	764	751	748	700
65°	420	417	421	418	418	424
75°	227	227	227	228	228	239
85°	58	61	64	64	64	68
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1867.4	1867.4	1867.4	1867.4	1867.4
2.5°	1881.9	1861.0	1867.4	1862.6	1851.3
5°	1877.1	1856.1	1862.6	1856.1	1852.9
7.5°	1865.8	1844.9	1851.3	1844.9	1843.3
10°	1849.7	1830.4	1836.8	1830.4	1827.2
12.5°	1832.0	1811.1	1819.1	1811.1	1807.9
15°	1806.3	1787.0	1795.0	1788.6	1785.4
17.5°	1780.5	1759.6	1767.7	1761.2	1756.4
20°	1748.4	1729.1	1737.1	1725.9	1724.2
22.5°	1713.0	1693.7	1701.7	1685.6	1685.6
25°	1674.4	1653.5	1663.1	1645.4	1643.8
27.5°	1629.4	1610.1	1618.1	1600.4	1598.8
30°	1582.7	1563.4	1571.4	1552.1	1548.9
32.5°	1529.6	1511.9	1518.4	1499.1	1497.5
35°	1474.9	1457.2	1462.1	1442.8	1441.2
37.5°	1413.8	1397.7	1401.0	1380.0	1378.4
40°	1347.9	1331.8	1333.4	1310.9	1309.3
42.5°	1275.5	1259.4	1257.8	1235.3	1233.7
45°	1193.5	1177.4	1172.6	1151.6	1148.4
47.5°	1103.4	1087.3	1077.7	1060.0	1058.4
50°	1003.7	987.6	979.5	965.1	960.2
52.5°	895.9	879.8	873.4	860.5	855.7
55°	781.7	768.8	764.0	751.1	747.9
57.5°	672.3	662.7	661.1	648.2	646.6
60°	574.2	569.4	569.4	558.1	558.1
62.5°	490.6	487.4	490.6	484.1	482.5
65°	419.8	416.6	421.4	418.2	418.2
67.5°	360.3	360.3	363.5	361.9	361.9
70°	312.0	312.0	313.6	313.6	313.6
72.5°	268.6	267.0	271.8	271.8	270.2
75°	226.8	226.8	226.8	228.4	228.4
77.5°	185.0	185.0	186.6	186.6	185.0
80°	143.2	144.8	144.8	143.2	143.2
82.5°	101.3	102.9	102.9	102.9	101.3
85°	57.9	61.1	64.3	64.3	64.3
87.5°	20.9	27.3	32.2	32.2	30.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)