

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: P688761

Luminaire Tested: SQ4R-PH1-125D-92765-1-UNV-STD-W-4_2700K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688761
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2203-586-36)
Test Lab: INNOVATION CENTER
Issue Date: 5/22/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PH1-125D-92765-1-UNV-STD-W-4_2700K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE HEX CONTINUOUS LENS.
1250 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4311.2 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.22 / 1.28
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

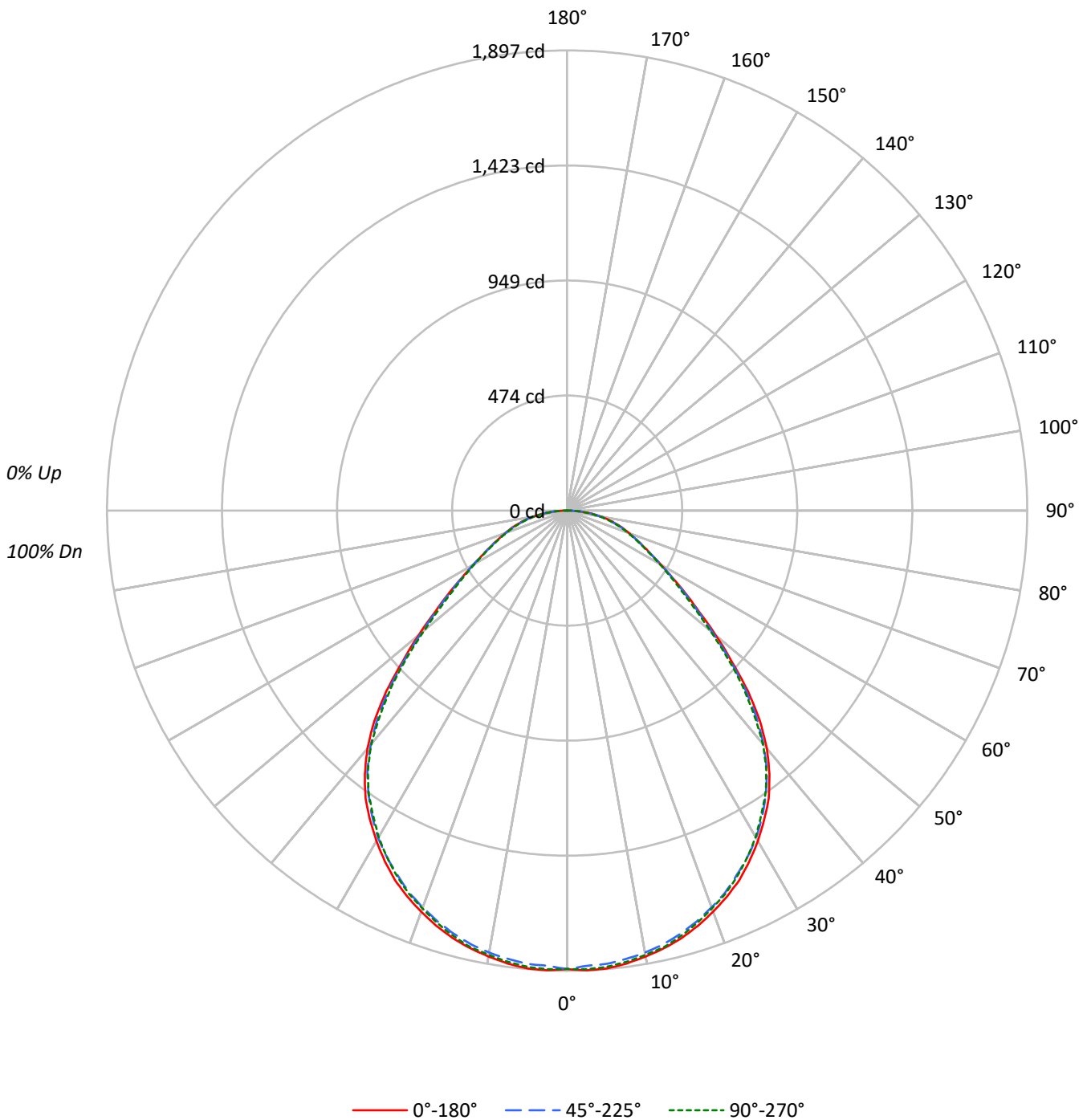
Input Watts (W): 60.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
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	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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86				86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74				74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64				64
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	57	55				55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49				49
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43				43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39				39
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	35				35
9	60	47	39	34	58	47	39	34	45	39	34	44	38	34	43	38	33	32				32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29				29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18196	18196	18196
5°	18310	18130	18242
10°	18248	18088	18179
15°	18186	18000	18093
20°	18024	17833	17881
25°	17846	17597	17647
30°	17482	17326	17275
35°	17030	16783	16755
40°	16099	15835	15776
45°	14359	14073	13915
50°	11986	11742	11498
55°	9987	9869	9634
60°	8582	8626	8447
65°	7866	7814	7707
70°	7620	7552	7423
75°	7726	7551	7376
80°	7762	7634	7374
85°	7478	7478	6959

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14359 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.2	4.2
10°-20°	512.1	11.9
20°-30°	767.2	17.8
30°-40°	892.6	20.7
40°-50°	793.9	18.4
50°-60°	533.1	12.4
60°-70°	344.6	8.0
70°-80°	214.8	5.0
80°-90°	73.6	1.7
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°	1458.5	33.8
0°-40°	2351.2	54.5
0°-60°	3678.2	85.3
0°-90°	4311.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4311.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1890	1890	1890	1890	1890	
5°	1895	1890	1876	1890	1888	180
15°	1825	1820	1806	1818	1815	514
25°	1680	1673	1657	1666	1661	772
35°	1449	1442	1428	1428	1426	901
45°	1055	1050	1034	1020	1022	806
55°	595	595	588	579	574	539
65°	345	348	343	341	338	346
75°	208	205	203	203	198	219
85°	68	70	68	65	63	75
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1890.0	1890.0	1890.0	1890.0	1890.0
2.5°	1897.0	1892.3	1878.3	1894.6	1892.3
5°	1894.6	1890.0	1876.0	1890.0	1887.6
7.5°	1883.0	1880.6	1864.3	1880.6	1876.0
10°	1866.6	1866.6	1850.3	1864.3	1859.6
12.5°	1848.0	1845.6	1831.6	1845.6	1843.3
15°	1824.6	1820.0	1806.0	1817.6	1815.3
17.5°	1794.3	1792.0	1775.6	1787.3	1782.6
20°	1759.3	1754.6	1740.6	1750.0	1745.3
22.5°	1722.0	1717.3	1703.3	1710.3	1708.0
25°	1680.0	1673.0	1656.6	1666.0	1661.3
27.5°	1628.6	1626.3	1610.0	1614.6	1610.0
30°	1572.6	1570.3	1558.6	1558.6	1554.0
32.5°	1512.0	1514.3	1495.6	1498.0	1488.6
35°	1449.0	1442.0	1428.0	1428.0	1425.6
37.5°	1369.6	1365.0	1353.3	1351.0	1348.6
40°	1281.0	1276.3	1260.0	1255.3	1255.3
42.5°	1176.0	1171.3	1155.0	1148.0	1138.6
45°	1054.6	1050.0	1033.6	1019.6	1022.0
47.5°	919.3	924.0	907.6	896.0	893.6
50°	800.3	798.0	784.0	777.0	767.7
52.5°	686.0	688.3	676.7	672.0	660.3
55°	595.0	595.0	588.0	578.7	574.0
57.5°	513.3	518.0	511.0	506.3	501.7
60°	445.7	448.0	448.0	438.7	438.7
62.5°	389.7	392.0	389.7	385.0	385.0
65°	345.3	347.7	343.0	340.7	338.3
67.5°	305.7	308.0	305.7	303.3	298.7
70°	270.7	270.7	268.3	268.3	263.7
72.5°	240.3	238.0	235.7	235.7	233.3
75°	207.7	205.3	203.0	203.0	198.3
77.5°	175.0	172.7	172.7	168.0	165.7
80°	140.0	140.0	137.7	135.3	133.0
82.5°	107.3	105.0	102.7	100.3	98.0
85°	67.7	70.0	67.7	65.3	63.0
87.5°	30.3	32.7	32.7	32.7	30.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)