

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: P688848

Luminaire Tested: SQ4R-PP3-125D-93050-1-UNV-STD-W-4_3500K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688848
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-93050-1-UNV-STD-W-4_3500K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
1250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4946.2 lumens
Efficiency: N/A
Efficacy: 80.4 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

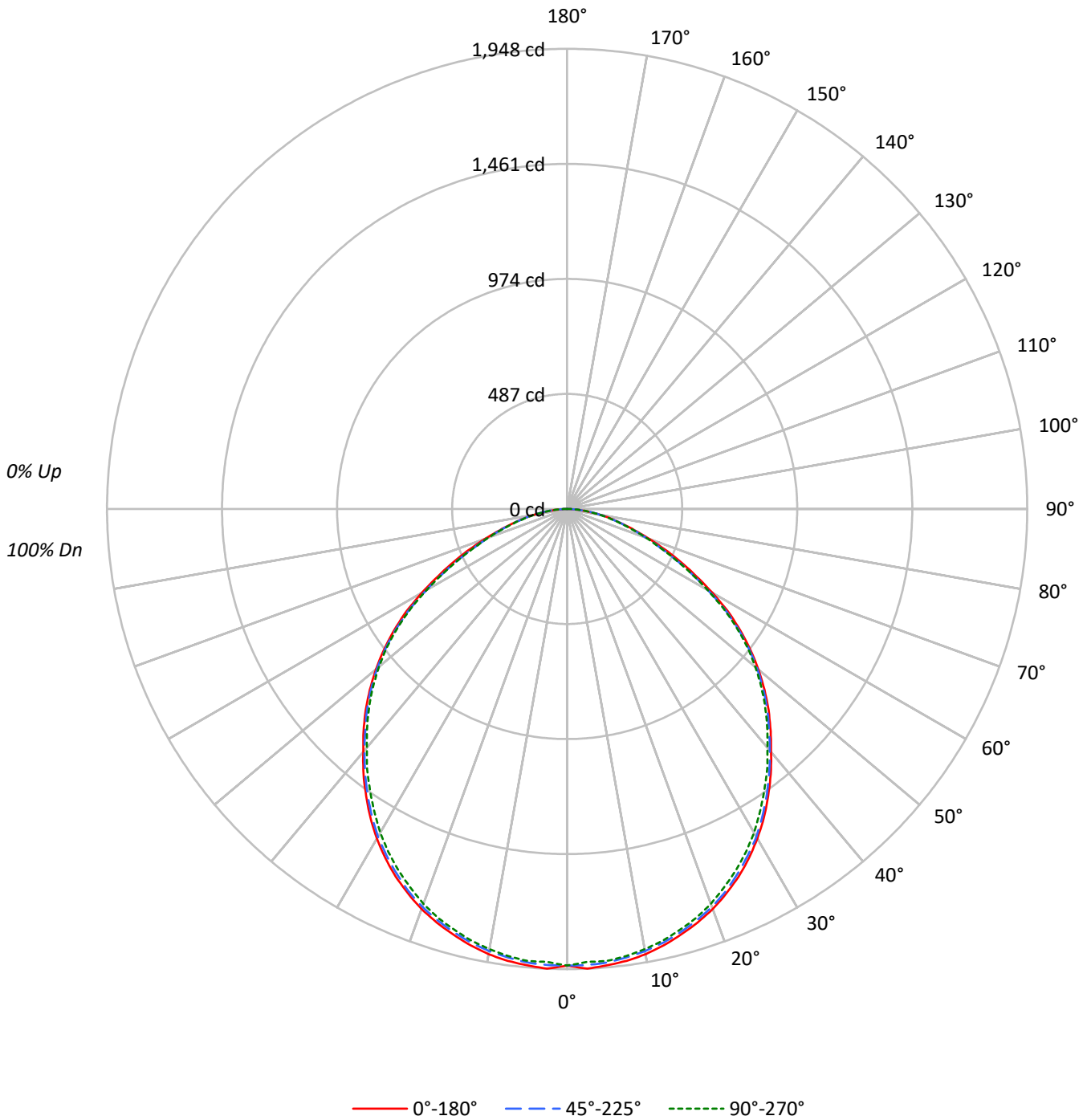
Input Watts (W): 61.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	18606	18606	18606
5°	18743	18628	18562
10°	18711	18578	18495
15°	18586	18486	18384
20°	18464	18359	18221
25°	18244	18118	17938
30°	17907	17812	17587
35°	17438	17319	17099
40°	16881	16774	16582
45°	16420	16304	16142
50°	15830	15728	15577
55°	15011	14813	14698
60°	13665	13274	13209
65°	12039	11536	11497
70°	10392	9965	9965
75°	8946	8819	8693
80°	7889	7984	7795
85°	6175	6738	6738

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16420 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.8	3.7
10°-20°	522.1	10.6
20°-30°	782.0	15.8
30°-40°	917.2	18.5
40°-50°	920.0	18.6
50°-60°	785.6	15.9
60°-70°	510.6	10.3
70°-80°	255.7	5.2
80°-90°	70.1	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°	1487.0	30.1
0°-40°	2404.2	48.6
0°-60°	4109.8	83.1
0°-90°	4946.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4946.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1933	1933	1933	1933	1933	
5°	1939	1921	1928	1921	1921	184
15°	1865	1846	1855	1848	1844	526
25°	1718	1697	1706	1690	1689	790
35°	1484	1468	1474	1457	1455	927
45°	1206	1198	1198	1186	1186	929
55°	894	891	882	877	876	796
65°	528	518	506	503	505	527
75°	240	240	237	235	234	260
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°	1932.6	1932.6	1932.6	1932.6	1932.6
2.5°	1947.8	1927.5	1932.6	1929.2	1919.0
5°	1939.4	1920.7	1927.5	1920.7	1920.7
7.5°	1929.2	1908.9	1915.7	1908.9	1908.9
10°	1914.0	1893.6	1900.4	1893.6	1891.9
12.5°	1891.9	1871.6	1880.1	1871.6	1871.6
15°	1864.8	1846.2	1854.7	1847.9	1844.5
17.5°	1836.0	1815.7	1825.9	1817.4	1815.7
20°	1802.2	1781.8	1792.0	1778.5	1778.5
22.5°	1761.5	1741.2	1753.1	1734.4	1734.4
25°	1717.5	1697.2	1705.6	1690.4	1688.7
27.5°	1666.7	1646.3	1654.8	1637.9	1637.9
30°	1610.8	1592.1	1602.3	1583.7	1582.0
32.5°	1549.8	1532.9	1539.6	1521.0	1519.3
35°	1483.7	1468.5	1473.6	1456.6	1454.9
37.5°	1416.0	1399.1	1405.8	1390.6	1390.6
40°	1343.2	1333.0	1334.7	1322.8	1319.4
42.5°	1275.4	1263.6	1265.2	1253.4	1253.4
45°	1206.0	1197.5	1197.5	1185.6	1185.6
47.5°	1133.1	1126.4	1124.7	1114.5	1114.5
50°	1056.9	1051.8	1050.1	1041.7	1040.0
52.5°	977.3	975.6	968.8	962.1	962.1
55°	894.3	890.9	882.5	877.4	875.7
57.5°	806.2	799.5	791.0	782.5	784.2
60°	709.7	702.9	689.4	686.0	686.0
62.5°	616.5	608.1	594.5	589.4	592.8
65°	528.5	518.3	506.4	503.0	504.7
67.5°	447.2	437.0	423.4	423.4	421.7
70°	369.2	364.2	354.0	354.0	354.0
72.5°	299.8	298.1	291.3	291.3	289.6
75°	240.5	240.5	237.1	235.4	233.7
77.5°	189.7	189.7	188.0	186.3	182.9
80°	142.3	145.7	144.0	142.3	140.6
82.5°	98.2	101.6	101.6	98.2	98.2
85°	55.9	61.0	61.0	61.0	61.0
87.5°	18.6	25.4	27.1	27.1	28.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)