

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: P688692

Luminaire Tested: SQ4R-PC3-125D-93050-1-UNV-STD-W-4_3500K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688692
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/22/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PC3-125D-93050-1-UNV-STD-W-4_3500K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID 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: 5052.7 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

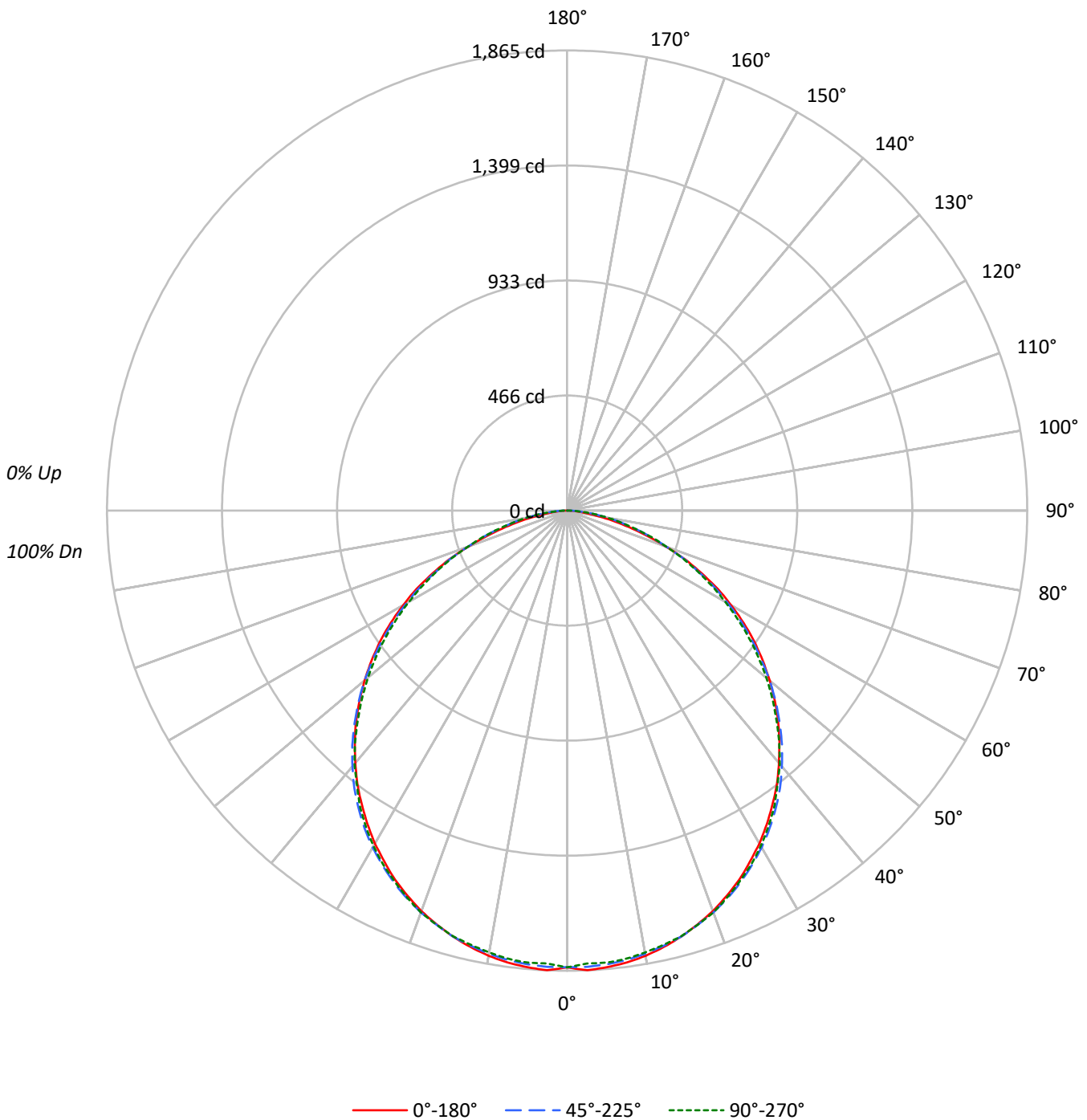
Input Watts (W): 61.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P688692

CATALOG NUMBER: SQ4R-PC3-125D-93050-1-UNV-STD-W-4_3500K

Luminous Intensity Polar Plot



TEST NUMBER: P688692

CATALOG NUMBER: SQ4R-PC3-125D-93050-1-UNV-STD-W-4_3500K

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	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17820	17820	17820
5°	17955	17839	17772
10°	17911	17827	17776
15°	17817	17817	17800
20°	17700	17753	17753
25°	17533	17660	17605
30°	17319	17529	17452
35°	17062	17324	17203
40°	16779	17017	16844
45°	16474	16591	16334
50°	16044	16044	15786
55°	15534	15333	15103
60°	14784	14487	14256
65°	13666	13392	13274
70°	11963	12062	12014
75°	9627	10646	10709
80°	6842	9026	9120
85°	4164	7578	7578

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 16591 cd/sqm

TEST NUMBER: P688692

CATALOG NUMBER: SQ4R-PC3-125D-93050-1-UNV-STD-W-4_3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.3	3.5
10°-20°	503.0	10.0
20°-30°	761.7	15.1
30°-40°	913.3	18.1
40°-50°	931.2	18.4
50°-60°	812.7	16.1
60°-70°	581.9	11.5
70°-80°	298.9	5.9
80°-90°	74.8	1.5
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°	1439.9	28.5
0°-40°	2353.2	46.6
0°-60°	4097.1	81.1
0°-90°	5052.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5052.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1851	1851	1851	1851	1851	
5°	1858	1839	1846	1841	1839	177
15°	1788	1772	1788	1788	1786	504
25°	1650	1638	1662	1657	1657	760
35°	1452	1448	1474	1464	1464	908
45°	1210	1207	1219	1203	1200	932
55°	926	914	914	900	900	826
65°	600	586	588	583	583	594
75°	259	271	286	288	288	279
85°	38	58	69	70	69	51
90°	0	0	0	0	0	

TEST NUMBER: P688692

CATALOG NUMBER: SQ4R-PC3-125D-93050-1-UNV-STD-W-4_3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1851.0	1851.0	1851.0	1851.0	1851.0
2.5°	1864.7	1844.2	1851.0	1845.9	1837.3
5°	1857.9	1839.0	1845.9	1840.7	1839.0
7.5°	1847.6	1828.7	1837.3	1833.9	1832.2
10°	1832.2	1813.3	1823.6	1820.2	1818.4
12.5°	1811.6	1794.5	1806.4	1803.0	1803.0
15°	1787.6	1772.2	1787.6	1787.6	1785.9
17.5°	1758.5	1744.7	1760.2	1761.9	1760.2
20°	1727.6	1712.2	1732.8	1731.0	1732.8
22.5°	1689.9	1677.9	1700.2	1695.0	1696.8
25°	1650.5	1638.5	1662.5	1657.3	1657.3
27.5°	1604.2	1595.6	1621.3	1616.2	1616.2
30°	1557.9	1549.4	1576.8	1569.9	1569.9
32.5°	1506.5	1501.4	1527.1	1518.5	1518.5
35°	1451.7	1448.2	1474.0	1463.7	1463.7
37.5°	1396.8	1393.4	1417.4	1405.4	1400.3
40°	1335.1	1333.4	1354.0	1340.3	1340.3
42.5°	1273.4	1271.7	1288.9	1271.7	1271.7
45°	1210.0	1206.6	1218.6	1203.2	1199.7
47.5°	1141.5	1138.0	1146.6	1129.5	1127.7
50°	1071.2	1067.8	1071.2	1055.8	1054.0
52.5°	999.2	992.3	992.3	976.9	976.9
55°	925.5	913.5	913.5	899.8	899.8
57.5°	848.4	833.0	834.7	822.7	821.0
60°	767.8	750.7	752.4	742.1	740.4
62.5°	689.0	668.4	673.6	661.6	661.6
65°	599.9	586.2	587.9	582.7	582.7
67.5°	517.6	503.9	512.5	507.3	507.3
70°	425.0	416.5	428.5	428.5	426.8
72.5°	339.4	341.1	356.5	356.5	358.2
75°	258.8	270.8	286.2	287.9	287.9
77.5°	185.1	205.7	222.8	222.8	222.8
80°	123.4	147.4	162.8	166.2	164.5
82.5°	73.7	99.4	111.4	114.8	113.1
85°	37.7	58.3	68.6	70.3	68.6
87.5°	13.7	29.1	34.3	34.3	30.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)