

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: P688840

Luminaire Tested: SQ4R-PP3-125D-92765-1-UNV-STD-W-4_3000K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688840
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_3000K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
1250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4515.9 lumens
Efficiency: N/A
Efficacy: 74.0 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

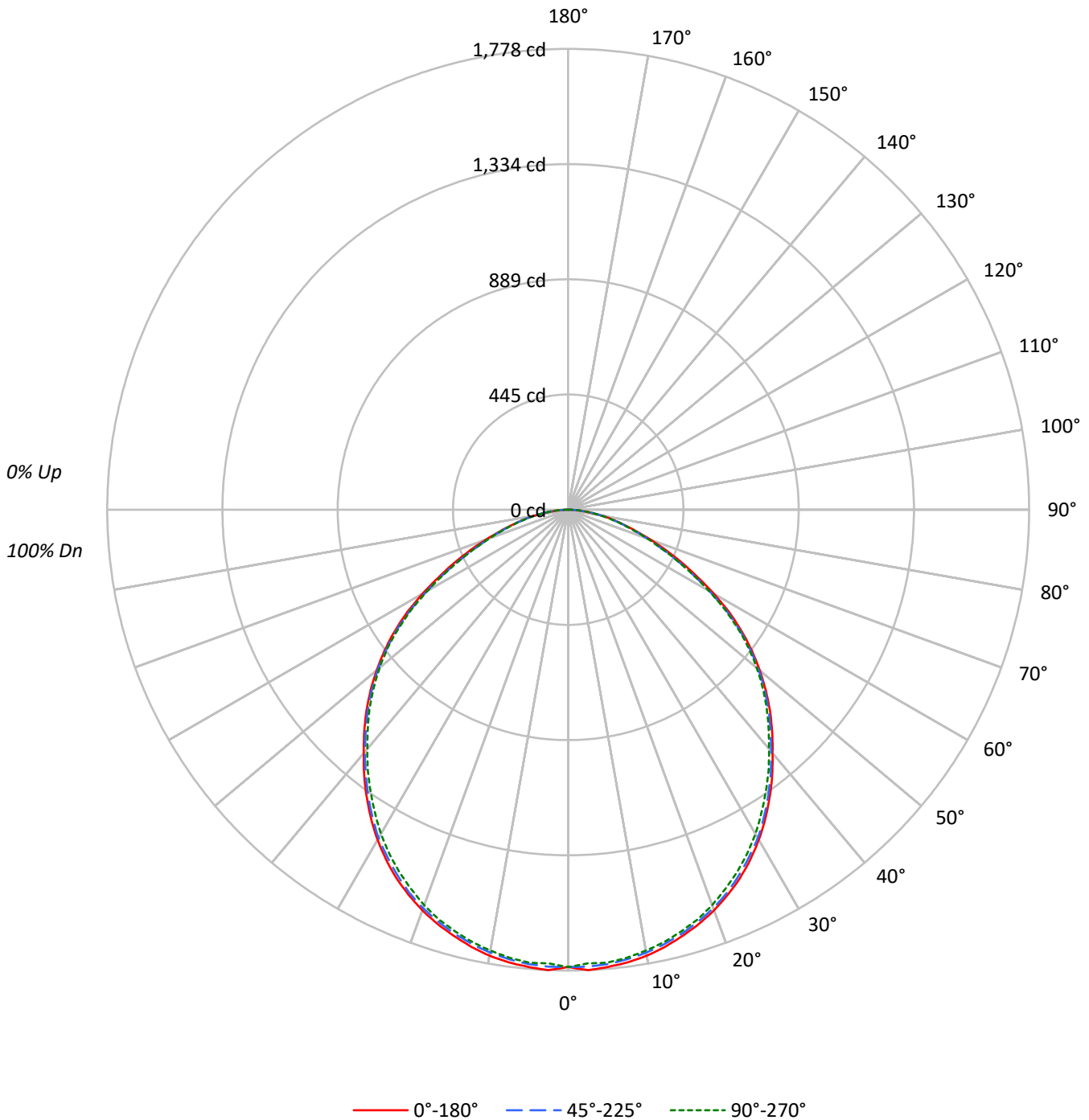
Input Watts (W): 61
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P688840

CATALOG NUMBER: SQ4R-PP3-125D-92765-1-UNV-STD-W-4_3000K

Luminous Intensity Polar Plot



TEST NUMBER: P688840

CATALOG NUMBER: SQ4R-PP3-125D-92765-1-UNV-STD-W-4_3000K

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°	16986	16986	16986
5°	17111	17007	16947
10°	17082	16962	16886
15°	16970	16877	16784
20°	16857	16762	16635
25°	16657	16542	16378
30°	16348	16263	16056
35°	15920	15812	15612
40°	15412	15315	15139
45°	14990	14885	14738
50°	14453	14360	14221
55°	13705	13523	13419
60°	12475	12119	12059
65°	10991	10534	10497
70°	9489	9098	9098
75°	8169	8053	7938
80°	7202	7285	7119
85°	5634	6153	6153

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14990 cd/sqm

TEST NUMBER: P688840

CATALOG NUMBER: SQ4R-PP3-125D-92765-1-UNV-STD-W-4_3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.9	3.7
10°-20°	476.7	10.6
20°-30°	714.0	15.8
30°-40°	837.4	18.5
40°-50°	840.0	18.6
50°-60°	717.2	15.9
60°-70°	466.2	10.3
70°-80°	233.4	5.2
80°-90°	64.0	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°	1357.6	30.1
0°-40°	2195.0	48.6
0°-60°	3752.2	83.1
0°-90°	4515.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4515.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1764	1764	1764	1764	1764	
5°	1771	1754	1760	1754	1754	168
15°	1703	1686	1693	1687	1684	481
25°	1568	1550	1557	1543	1542	722
35°	1355	1341	1345	1330	1328	847
45°	1101	1093	1093	1082	1082	848
55°	816	813	806	801	800	727
65°	482	473	462	459	461	481
75°	220	220	216	215	213	237
85°	51	56	56	56	56	61
90°	0	0	0	0	0	

TEST NUMBER: P688840

CATALOG NUMBER: SQ4R-PP3-125D-92765-1-UNV-STD-W-4_3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1764.4	1764.4	1764.4	1764.4	1764.4
2.5°	1778.4	1759.8	1764.4	1761.4	1752.1
5°	1770.6	1753.6	1759.8	1753.6	1753.6
7.5°	1761.4	1742.8	1749.0	1742.8	1742.8
10°	1747.4	1728.9	1735.1	1728.9	1727.3
12.5°	1727.3	1708.8	1716.5	1708.8	1708.8
15°	1702.6	1685.6	1693.3	1687.1	1684.0
17.5°	1676.3	1657.7	1667.0	1659.3	1657.7
20°	1645.4	1626.8	1636.1	1623.7	1623.7
22.5°	1608.3	1589.7	1600.5	1583.5	1583.5
25°	1568.1	1549.5	1557.2	1543.3	1541.8
27.5°	1521.7	1503.1	1510.8	1495.4	1495.4
30°	1470.6	1453.6	1462.9	1445.9	1444.3
32.5°	1415.0	1399.5	1405.7	1388.7	1387.1
35°	1354.6	1340.7	1345.4	1329.9	1328.4
37.5°	1292.8	1277.3	1283.5	1269.6	1269.6
40°	1226.3	1217.0	1218.6	1207.7	1204.6
42.5°	1164.4	1153.6	1155.2	1144.3	1144.3
45°	1101.0	1093.3	1093.3	1082.5	1082.5
47.5°	1034.5	1028.4	1026.8	1017.5	1017.5
50°	965.0	960.3	958.8	951.0	949.5
52.5°	892.3	890.7	884.5	878.4	878.4
55°	816.5	813.4	805.7	801.0	799.5
57.5°	736.1	729.9	722.2	714.4	716.0
60°	647.9	641.8	629.4	626.3	626.3
62.5°	562.9	555.2	542.8	538.1	541.2
65°	482.5	473.2	462.4	459.3	460.8
67.5°	408.3	399.0	386.6	386.6	385.1
70°	337.1	332.5	323.2	323.2	323.2
72.5°	273.7	272.2	266.0	266.0	264.4
75°	219.6	219.6	216.5	215.0	213.4
77.5°	173.2	173.2	171.7	170.1	167.0
80°	129.9	133.0	131.4	129.9	128.4
82.5°	89.7	92.8	92.8	89.7	89.7
85°	51.0	55.7	55.7	55.7	55.7
87.5°	17.0	23.2	24.7	24.7	26.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)