

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: P521484

Luminaire Tested: SQ4-F-075U-125D-92765-1D-UNV-STD-W-4_3000K

Issue Date: 5-5-2021

Test Information

Test Method: LM-79-2019
Report Number: P521484
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2101-105-39)
Test Lab: INNOVATION CENTER
Issue Date: 5-5-2021
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-F-075U-125D-92765-1D-UNV-STD-W-4_3000K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K-6500K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8266.6 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.38
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

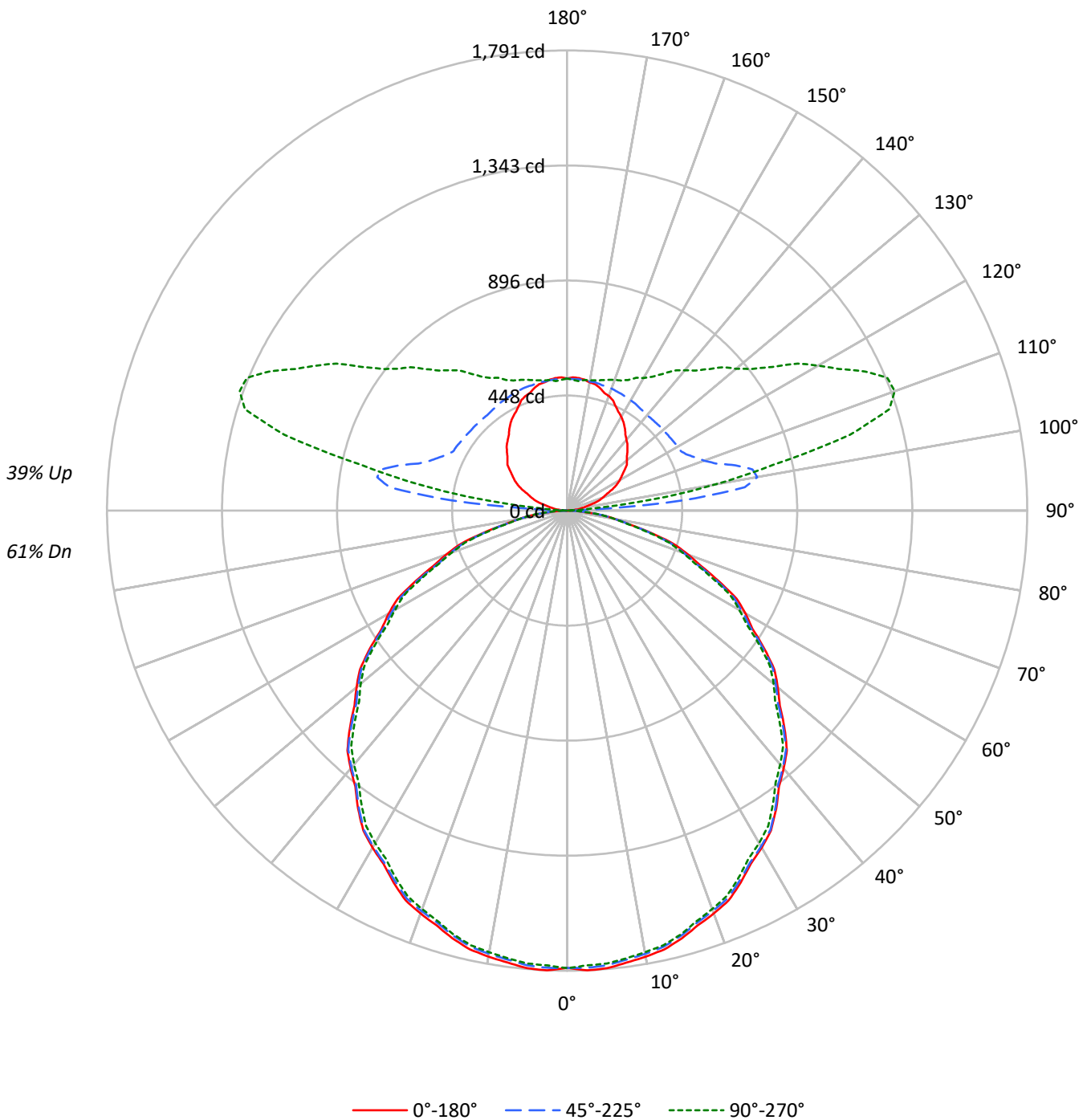
Input Watts (W): 79.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P521484

CATALOG NUMBER: SQ4-F-075U-125D-92765-1D-UNV-STD-W-4_3000K

Luminous Intensity Polar Plot



TEST NUMBER: P521484

CATALOG NUMBER: SQ4-F-075U-125D-92765-1D-UNV-STD-W-4_3000K

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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	61																				
1	100	96	92	88	94	90	86	83	78	76	73	68	66	64	59	57	56	51																				
2	91	83	77	72	85	78	73	68	69	64	60	60	56	53	51	49	47	43																				
3	83	73	65	59	77	69	62	56	60	55	51	52	48	45	45	42	40	36																				
4	76	65	56	50	71	61	53	48	53	48	43	47	42	38	40	37	34	31																				
5	70	58	49	43	65	54	47	41	48	42	37	42	37	33	36	32	29	26																				
6	64	52	43	37	60	49	41	35	43	37	32	38	33	29	33	29	26	23																				
7	59	47	38	33	55	44	36	31	39	33	28	34	29	26	30	26	23	20																				
8	55	42	34	29	51	40	33	28	36	29	25	31	26	23	27	23	20	18																				
9	51	39	31	26	48	37	29	25	33	27	23	29	24	20	25	21	18	16																				
10	48	35	28	23	45	34	27	22	30	24	20	27	22	18	23	20	17	15																				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16425	16425	16425
5°	16560	16452	16388
10°	16514	16414	16349
15°	16463	16361	16314
20°	16387	16281	16204
25°	16265	16175	16065
30°	16137	16085	15917
35°	15971	15916	15718
40°	15785	15726	15537
45°	15609	15507	15265
50°	15362	15236	15054
55°	15080	14939	14704
60°	14795	14524	14271
65°	14221	13922	13644
70°	13515	13040	12881
75°	12220	11871	11660
80°	10068	10068	9909
85°	7135	8162	8585

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15609 cd/sqm

TEST NUMBER: P521484

CATALOG NUMBER: SQ4-F-075U-125D-92765-1D-UNV-STD-W-4_3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.5	2.0
10°-20°	482.5	5.8
20°-30°	729.8	8.8
30°-40°	879.0	10.6
40°-50°	912.6	11.0
50°-60°	827.3	10.0
60°-70°	631.1	7.6
70°-80°	353.0	4.3
80°-90°	91.8	1.1
90°-100°	234.1	2.8
100°-110°	666.0	8.1
110°-120°	638.1	7.7
120°-130°	505.0	6.1
130°-140°	405.4	4.9
140°-150°	317.4	3.8
150°-160°	232.2	2.8
160°-170°	143.8	1.7
170°-180°	48.8	0.6
0°-30°	1380.8	16.7
0°-40°	2259.9	27.3
0°-60°	3999.8	48.4
0°-90°	5075.8	61.4
90°-120°	1538.2	18.6
90°-150°	2766.0	33.5
90°-180°	3191.0	38.6
0°-180°	8266.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1780	1780	1780	1780	1780	
5°	1788	1770	1776	1771	1770	170
15°	1724	1706	1713	1711	1708	486
25°	1598	1581	1589	1577	1578	736
35°	1418	1406	1413	1397	1396	886
45°	1196	1190	1188	1174	1170	922
55°	938	936	929	917	914	837
65°	651	648	638	630	625	646
75°	343	337	333	328	327	362
85°	67	74	77	77	81	84
90°	0	0	0	0	0	4
95°	25	101	453	157	97	29
105°	104	157	679	1199	1140	110
115°	192	232	515	1090	1280	189
125°	272	301	491	815	975	243
135°	332	360	485	689	778	256
145°	392	412	489	596	649	245
155°	447	458	501	539	560	207
165°	494	496	507	518	525	139
175°	518	515	513	510	506	49
180°	514	514	514	514	514	

TEST NUMBER: P521484

CATALOG NUMBER: SQ4-F-075U-125D-92765-1D-UNV-STD-W-4_3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1780.3	1780.3	1780.3	1780.3	1780.3
2.5°	1791.2	1776.7	1781.1	1777.8	1771.7
5°	1788.1	1770.0	1776.4	1771.4	1769.5
7.5°	1774.4	1757.4	1762.9	1759.9	1757.6
10°	1762.7	1746.5	1752.0	1748.9	1745.1
12.5°	1749.4	1732.4	1738.7	1734.2	1732.6
15°	1723.6	1706.5	1712.9	1710.9	1708.0
17.5°	1692.4	1675.0	1681.6	1677.7	1675.4
20°	1669.0	1650.8	1658.2	1650.4	1650.4
22.5°	1642.4	1624.2	1633.2	1621.5	1623.8
25°	1597.7	1581.4	1588.9	1577.2	1578.1
27.5°	1549.0	1533.8	1543.4	1528.3	1527.7
30°	1514.7	1499.4	1509.8	1493.2	1494.1
32.5°	1476.4	1463.4	1472.3	1456.4	1455.9
35°	1418.0	1406.5	1413.1	1397.4	1395.5
37.5°	1354.3	1345.9	1348.6	1333.8	1333.0
40°	1310.6	1302.9	1305.7	1290.0	1290.0
42.5°	1266.0	1259.1	1261.1	1244.0	1244.0
45°	1196.3	1189.6	1188.5	1173.7	1169.9
47.5°	1121.9	1116.5	1113.1	1099.8	1098.1
50°	1070.3	1066.5	1061.5	1049.8	1048.8
52.5°	1016.4	1014.9	1009.2	996.7	995.7
55°	937.5	935.6	928.7	916.9	914.1
57.5°	854.9	853.0	844.9	833.3	830.5
60°	801.8	796.0	787.1	776.3	773.4
62.5°	743.9	737.5	728.5	718.5	718.0
65°	651.4	647.6	637.7	629.8	625.0
67.5°	564.3	555.7	545.9	539.4	538.5
70°	501.0	492.4	483.4	478.5	477.5
72.5°	437.7	430.6	422.5	417.6	417.4
75°	342.8	337.0	333.0	328.1	327.1
77.5°	248.8	247.3	245.7	240.4	240.4
80°	189.5	189.5	189.5	186.5	186.5
82.5°	136.3	140.1	140.2	138.9	138.9
85°	67.4	74.1	77.1	77.2	81.1
87.5°	18.8	25.6	30.5	31.3	33.6
90°	0.0	0.0	0.0	0.0	0.0
92.5°	7.8	41.4	96.1	28.0	21.1
95°	25.4	100.8	453.1	156.8	96.7
97.5°	46.7	118.1	697.9	499.4	342.2
100°	61.5	128.4	751.0	760.7	585.9
102.5°	77.9	139.4	739.3	973.7	821.1
105°	103.5	157.0	678.7	1198.9	1139.7
107.5°	129.5	177.4	608.0	1262.3	1315.0
110°	147.5	192.3	567.4	1238.0	1356.5

TEST NUMBER: P521484

CATALOG NUMBER: SQ4-F-075U-125D-92765-1D-UNV-STD-W-4_3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	164.6	207.2	540.0	1180.6	1349.4
115°	192.4	232.5	514.7	1090.3	1280.3
117.5°	216.8	254.4	499.6	991.5	1192.8
120°	236.3	267.8	498.0	935.1	1127.9
122.5°	252.0	283.5	494.1	885.5	1064.7
125°	271.5	301.1	491.2	815.2	974.6
127.5°	292.8	320.5	489.7	773.1	904.5
130°	303.7	331.4	487.3	743.8	858.4
132.5°	315.4	342.4	487.3	721.0	826.4
135°	332.0	359.7	485.4	688.6	778.3
137.5°	347.7	374.6	485.2	661.1	738.7
140°	359.4	387.1	484.4	638.4	712.9
142.5°	372.7	395.8	486.7	620.3	687.1
145°	391.6	411.7	489.3	595.9	649.4
147.5°	407.8	427.3	493.6	571.4	617.6
150°	421.9	435.2	495.1	563.2	595.7
152.5°	432.8	446.9	496.7	552.3	582.4
155°	447.3	457.8	501.0	538.6	560.5
157.5°	465.2	471.5	502.0	532.4	548.0
160°	474.6	479.4	505.9	527.6	541.0
162.5°	480.1	485.6	506.6	523.7	534.0
165°	494.1	496.1	506.8	517.8	525.4
167.5°	503.7	502.0	511.3	516.3	519.3
170°	506.8	505.9	509.8	510.8	514.7
172.5°	513.9	510.6	512.1	509.3	512.3
175°	517.6	514.7	512.7	509.7	505.9
177.5°	519.1	514.6	512.1	509.0	509.8
180°	513.7	513.7	513.7	513.7	513.7

(END OF REPORT)