

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  
(formerly Eaton)

Brand: CORELITE

Report Number: P562000

Luminaire Tested: **SQ4-PR1-100U-075D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562000  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PR1-100U-075D-92765-1D-UNV-STD-W-4 (3500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

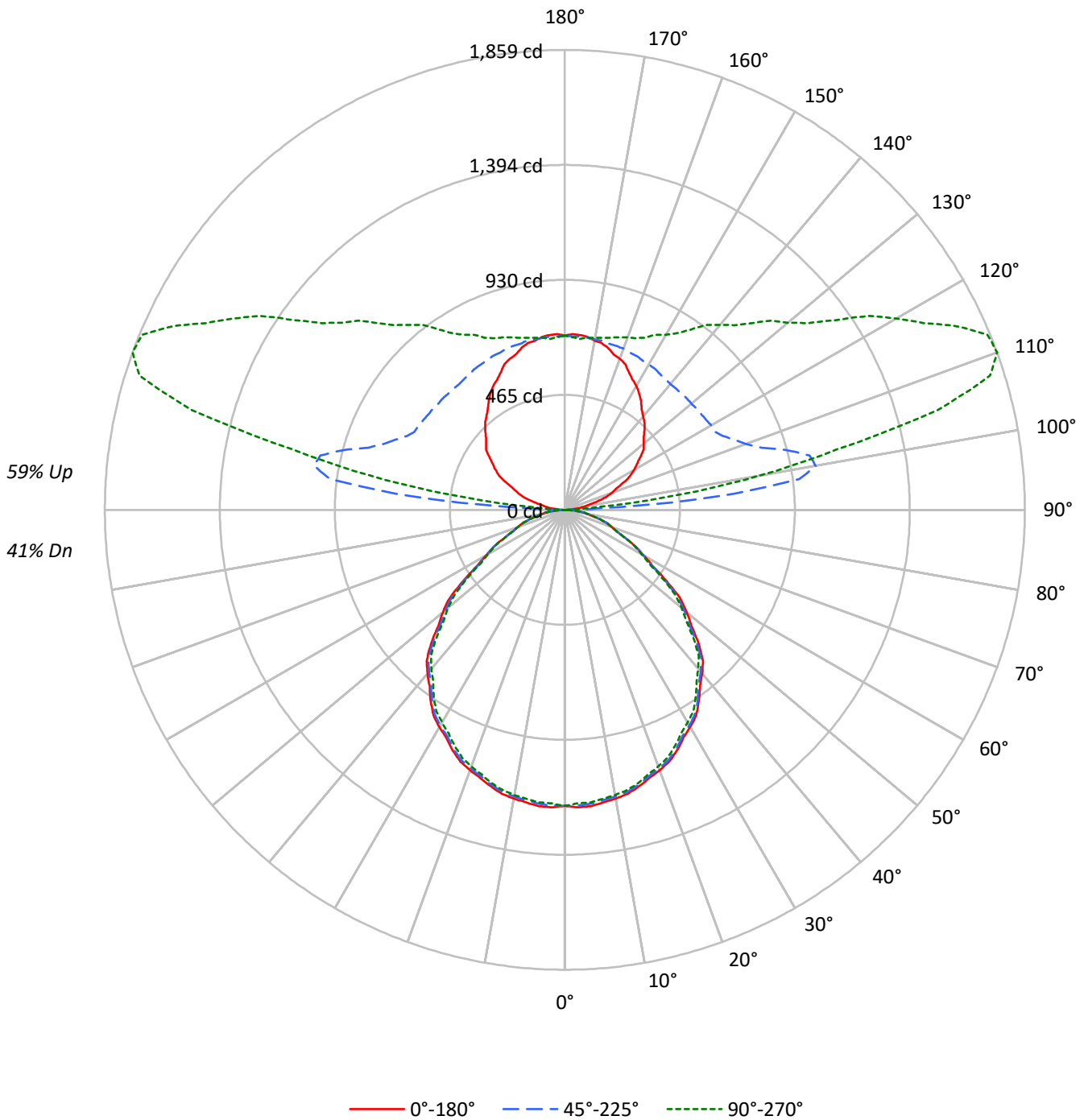
Lumens per Lamp: N/A  
Luminaire Lumens: 7362.8 lumens  
Efficiency: N/A  
Efficacy: 114.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 64.3  
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: P562000  
CATALOG NUMBER: SQ4-PR1-100U-075D-92765-1D-UNV-STD-W-4 (3500K)

### Luminous Intensity Polar Plot





TEST NUMBER: P562000

CATALOG NUMBER: SQ4-PR1-100U-075D-92765-1D-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	50	30	10	0	
RCR																						
0	105	105	105	105	96	96	96	96	78	78	78	62	62	62	48	48	48	41				
1	96	92	88	85	87	84	81	78	69	67	65	55	54	52	42	41	41	35				
2	88	80	74	69	80	73	68	64	61	57	54	49	46	44	38	36	35	29				
3	80	71	64	58	73	65	59	54	54	49	45	43	40	37	33	31	30	25				
4	73	63	55	49	66	58	51	46	48	43	39	39	35	32	30	28	26	22				
5	67	56	48	42	61	51	44	39	43	38	34	35	31	28	27	25	22	19				
6	62	50	42	37	56	46	39	34	38	33	29	31	27	24	25	22	20	17				
7	57	45	37	32	52	42	35	30	35	30	26	28	25	22	22	20	18	15				
8	53	41	33	28	48	38	31	26	32	27	23	26	22	19	21	18	16	13				
9	49	37	30	25	45	35	28	24	29	24	20	24	20	17	19	16	14	12				
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	18	15	13	11				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	11035	11035	11035
5°	11135	11049	10992
10°	11100	11023	10965
15°	11051	10983	10923
20°	10996	10925	10843
25°	10918	10845	10719
30°	10801	10724	10569
35°	10640	10548	10397
40°	10399	10287	10100
45°	9975	9800	9598
50°	9228	9005	8829
55°	8054	7872	7707
60°	6787	6730	6597
65°	5870	5892	5849
70°	5392	5419	5419
75°	5180	5180	5215
80°	4872	4925	4872
85°	3927	4361	4361



TEST NUMBER: P562000

CATALOG NUMBER: SQ4-PR1-100U-075D-92765-1D-UNV-STD-W-4 (3500K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.1	1.5
10°-20°	323.6	4.4
20°-30°	488.1	6.6
30°-40°	581.6	7.9
40°-50°	573.4	7.8
50°-60°	438.2	6.0
60°-70°	271.2	3.7
70°-80°	154.0	2.1
80°-90°	46.9	0.6
90°-100°	320.7	4.4
100°-110°	912.7	12.4
110°-120°	874.4	11.9
120°-130°	692.1	9.4
130°-140°	555.5	7.5
140°-150°	434.9	5.9
150°-160°	318.2	4.3
160°-170°	197.1	2.7
170°-180°	66.9	0.9
0°-30°	924.9	12.6
0°-40°	1506.5	20.5
0°-60°	2518.1	34.2
0°-90°	2990.2	40.6
90°-120°	2107.9	28.6
90°-150°	3790.4	51.5
90°-180°	4373.0	59.4
0°-180°	7362.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1196	1196	1196	1196	1196	
5°	1202	1189	1193	1189	1187	114
15°	1157	1145	1150	1146	1144	326
25°	1072	1059	1065	1054	1053	494
35°	945	934	936	924	923	590
45°	764	754	751	738	736	586
55°	501	493	489	481	479	449
65°	269	267	270	268	268	272
75°	145	145	145	146	146	153
85°	37	39	41	41	41	43
90°	0	0	0	0	0	3
95°	35	138	621	215	132	40
105°	142	215	930	1643	1562	150
115°	264	319	705	1494	1754	260
125°	372	413	673	1117	1336	333
135°	455	493	665	944	1067	351
145°	537	564	670	817	890	335
155°	613	627	686	738	768	283
165°	677	680	695	710	720	190
175°	709	705	703	698	693	67
180°	704	704	704	704	704	

TEST NUMBER: P562000

CATALOG NUMBER: SQ4-PR1-100U-075D-92765-1D-UNV-STD-W-4 (3500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1196.1	1196.1	1196.1	1196.1	1196.1
2.5°	1203.6	1193.1	1196.1	1193.5	1187.9
5°	1202.3	1189.2	1193.0	1188.9	1186.9
7.5°	1193.0	1180.1	1184.0	1179.8	1178.6
10°	1184.8	1172.7	1176.6	1172.4	1170.4
12.5°	1175.7	1162.8	1167.5	1162.5	1160.5
15°	1157.0	1144.9	1149.8	1145.6	1143.6
17.5°	1136.4	1123.5	1128.3	1123.5	1120.9
20°	1119.9	1107.8	1112.7	1105.4	1104.4
22.5°	1101.8	1089.7	1094.5	1084.9	1084.7
25°	1072.5	1059.4	1065.3	1053.9	1052.9
27.5°	1037.7	1025.6	1030.5	1018.9	1017.7
30°	1013.8	1001.7	1006.6	994.2	992.1
32.5°	986.6	975.3	979.4	967.0	965.8
35°	944.7	933.7	936.5	924.1	923.1
37.5°	897.2	887.1	888.7	875.1	874.1
40°	863.4	853.3	854.1	839.6	838.6
42.5°	826.3	816.2	815.3	800.9	799.9
45°	764.5	754.4	751.1	737.6	735.6
47.5°	694.0	683.9	677.7	666.8	665.3
50°	642.9	632.8	627.4	618.1	615.1
52.5°	587.7	577.6	573.0	564.5	561.5
55°	500.7	492.6	489.4	481.1	479.1
57.5°	418.1	412.6	411.7	403.6	402.8
60°	367.8	364.8	364.7	357.5	357.5
62.5°	324.9	322.7	324.3	319.6	318.8
65°	268.9	266.9	269.9	267.9	267.9
67.5°	224.6	224.6	226.5	225.6	225.6
70°	199.9	199.9	200.9	200.9	200.9
72.5°	177.6	176.8	179.5	179.5	178.6
75°	145.3	145.3	145.3	146.3	146.3
77.5°	113.1	113.3	114.2	113.9	113.1
80°	91.7	92.7	92.7	91.7	91.7
82.5°	70.3	71.3	71.3	71.1	70.3
85°	37.1	39.1	41.2	41.2	41.2
87.5°	10.7	13.9	16.5	16.5	15.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	10.7	56.8	131.7	38.3	28.9
95°	34.8	138.2	620.9	214.9	132.5
97.5°	64.0	161.8	956.3	684.3	468.9
100°	84.3	175.9	1029.1	1042.4	802.9
102.5°	106.8	191.1	1013.1	1334.3	1125.2
105°	141.9	215.1	930.1	1642.9	1561.7
107.5°	177.5	243.1	833.2	1729.9	1802.1
110°	202.1	263.6	777.5	1696.6	1858.8



TEST NUMBER: P562000

CATALOG NUMBER: SQ4-PR1-100U-075D-92765-1D-UNV-STD-W-4 (3500K)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	225.6	284.0	740.1	1617.8	1849.2
115°	263.6	318.6	705.3	1494.1	1754.4
117.5°	297.1	348.6	684.6	1358.7	1634.5
120°	323.9	367.0	682.5	1281.4	1545.7
122.5°	345.3	388.4	677.2	1213.5	1459.0
125°	372.0	412.6	673.1	1117.1	1335.6
127.5°	401.2	439.2	671.0	1059.4	1239.5
130°	416.2	454.1	667.8	1019.3	1176.3
132.5°	432.3	469.2	667.8	988.0	1132.4
135°	455.0	493.0	665.1	943.6	1066.6
137.5°	476.4	513.3	664.8	906.0	1012.3
140°	492.5	530.4	663.8	874.9	976.9
142.5°	510.7	542.3	667.0	850.0	941.6
145°	536.6	564.1	670.5	816.7	889.9
147.5°	558.9	585.5	676.4	783.0	846.3
150°	578.1	596.4	678.5	771.8	816.3
152.5°	593.1	612.5	680.6	756.8	798.1
155°	612.9	627.3	686.5	738.1	768.2
157.5°	637.5	646.2	687.9	729.6	751.0
160°	650.4	656.9	693.2	723.1	741.4
162.5°	657.9	665.5	694.3	717.6	731.8
165°	677.2	679.8	694.6	709.5	720.0
167.5°	690.3	687.9	700.7	707.5	711.7
170°	694.6	693.2	698.6	700.0	705.3
172.5°	704.2	699.7	701.8	697.9	702.0
175°	709.3	705.3	702.6	698.4	693.2
177.5°	711.4	705.1	701.8	697.5	698.6
180°	703.9	703.9	703.9	703.9	703.9

(END OF REPORT)