

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: P561998

Luminaire Tested: **SQ4-PR1-100U-075D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561998  
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 (2700K)  
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 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

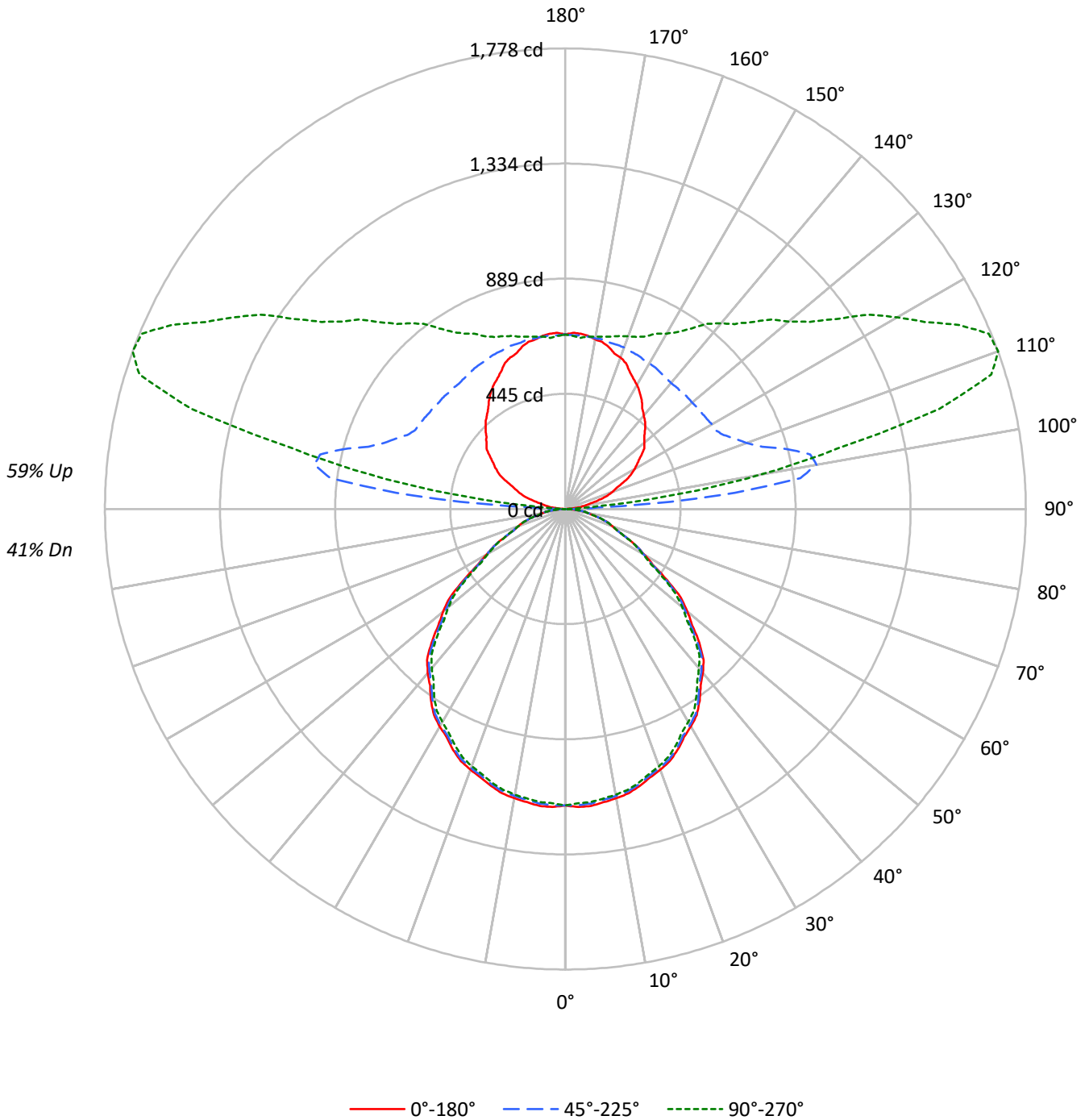
Lumens per Lamp: N/A  
Luminaire Lumens: 7044.2 lumens  
Efficiency: N/A  
Efficacy: 109.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 64.1  
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: P561998  
CATALOG NUMBER: SQ4-PR1-100U-075D-92765-1D-UNV-STD-W-4 (2700K)

### Luminous Intensity Polar Plot





TEST NUMBER: P561998

CATALOG NUMBER: SQ4-PR1-100U-075D-92765-1D-UNV-STD-W-4 (2700K)

**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°	10558	10558	10558
5°	10653	10571	10516
10°	10619	10546	10490
15°	10573	10507	10450
20°	10519	10452	10375
25°	10446	10375	10255
30°	10333	10259	10112
35°	10181	10092	9948
40°	9948	9841	9664
45°	9543	9376	9183
50°	8829	8616	8447
55°	7705	7531	7372
60°	6493	6438	6311
65°	5617	5639	5595
70°	5158	5185	5185
75°	4955	4955	4991
80°	4660	4713	4660
85°	3758	4171	4171



TEST NUMBER: P561998

CATALOG NUMBER: SQ4-PR1-100U-075D-92765-1D-UNV-STD-W-4 (2700K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.2	1.5
10°-20°	309.6	4.4
20°-30°	467.0	6.6
30°-40°	556.4	7.9
40°-50°	548.6	7.8
50°-60°	419.3	6.0
60°-70°	259.5	3.7
70°-80°	147.4	2.1
80°-90°	44.8	0.6
90°-100°	306.9	4.4
100°-110°	873.2	12.4
110°-120°	836.6	11.9
120°-130°	662.1	9.4
130°-140°	531.5	7.5
140°-150°	416.1	5.9
150°-160°	304.4	4.3
160°-170°	188.6	2.7
170°-180°	64.0	0.9
0°-30°	884.9	12.6
0°-40°	1441.3	20.5
0°-60°	2409.2	34.2
0°-90°	2860.8	40.6
90°-120°	2016.7	28.6
90°-150°	3626.3	51.5
90°-180°	4183.0	59.4
0°-180°	7044.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1144	1144	1144	1144	1144	
5°	1150	1138	1141	1137	1136	109
15°	1107	1095	1100	1096	1094	312
25°	1026	1014	1019	1008	1007	472
35°	904	893	896	884	883	564
45°	731	722	719	706	704	560
55°	479	471	468	460	458	429
65°	257	255	258	256	256	261
75°	139	139	139	140	140	147
85°	36	37	39	39	39	41
90°	0	0	0	0	0	3
95°	33	132	594	206	127	38
105°	136	206	890	1572	1494	144
115°	252	305	675	1429	1678	248
125°	356	395	644	1069	1278	319
135°	435	472	636	903	1020	336
145°	513	540	642	781	851	321
155°	586	600	657	706	735	271
165°	648	650	664	679	689	182
175°	679	675	672	668	663	64
180°	674	674	674	674	674	



TEST NUMBER: P561998

CATALOG NUMBER: SQ4-PR1-100U-075D-92765-1D-UNV-STD-W-4 (2700K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1144.4	1144.4	1144.4	1144.4	1144.4
2.5°	1151.5	1141.5	1144.4	1141.9	1136.5
5°	1150.3	1137.8	1141.4	1137.4	1135.5
7.5°	1141.4	1129.1	1132.8	1128.8	1127.6
10°	1133.5	1122.0	1125.7	1121.7	1119.7
12.5°	1124.9	1112.5	1117.0	1112.2	1110.3
15°	1106.9	1095.4	1100.0	1096.0	1094.1
17.5°	1087.2	1074.9	1079.5	1074.9	1072.4
20°	1071.4	1059.9	1064.5	1057.6	1056.7
22.5°	1054.1	1042.5	1047.2	1037.9	1037.7
25°	1026.1	1013.6	1019.2	1008.3	1007.4
27.5°	992.8	981.2	985.9	974.8	973.7
30°	969.9	958.4	963.0	951.1	949.2
32.5°	943.9	933.1	937.0	925.1	924.0
35°	903.9	893.3	896.0	884.1	883.2
37.5°	858.3	848.7	850.3	837.2	836.3
40°	826.0	816.4	817.1	803.3	802.4
42.5°	790.5	780.9	780.1	766.3	765.3
45°	731.4	721.7	718.6	705.7	703.8
47.5°	664.0	654.3	648.4	637.9	636.6
50°	615.1	605.4	600.3	591.3	588.5
52.5°	562.2	552.6	548.2	540.1	537.2
55°	479.0	471.3	468.2	460.3	458.3
57.5°	400.0	394.8	393.9	386.2	385.4
60°	351.9	349.0	348.9	342.0	342.0
62.5°	310.9	308.8	310.3	305.7	305.0
65°	257.3	255.3	258.3	256.3	256.3
67.5°	214.9	214.9	216.7	215.9	215.9
70°	191.2	191.2	192.2	192.2	192.2
72.5°	169.9	169.2	171.7	171.7	170.9
75°	139.0	139.0	139.0	140.0	140.0
77.5°	108.2	108.4	109.2	109.0	108.2
80°	87.7	88.7	88.7	87.7	87.7
82.5°	67.2	68.2	68.2	68.0	67.2
85°	35.5	37.4	39.4	39.4	39.4
87.5°	10.3	13.3	15.8	15.8	15.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	10.2	54.3	126.0	36.7	27.7
95°	33.3	132.2	594.1	205.6	126.8
97.5°	61.2	154.8	914.9	654.7	448.6
100°	80.7	168.3	984.6	997.3	768.2
102.5°	102.2	182.8	969.2	1276.6	1076.5
105°	135.7	205.8	889.8	1571.8	1494.2
107.5°	169.8	232.6	797.1	1655.0	1724.1
110°	193.3	252.2	743.9	1623.2	1778.4



TEST NUMBER: P561998

CATALOG NUMBER: SQ4-PR1-100U-075D-92765-1D-UNV-STD-W-4 (2700K)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	215.9	271.7	708.0	1547.9	1769.2
115°	252.2	304.8	674.7	1429.4	1678.5
117.5°	284.2	333.6	655.0	1299.9	1563.8
120°	309.8	351.2	653.0	1225.9	1478.8
122.5°	330.3	371.6	647.9	1161.0	1395.8
125°	355.9	394.7	644.0	1068.7	1277.8
127.5°	383.8	420.2	642.0	1013.6	1185.9
130°	398.2	434.5	638.9	975.2	1125.4
132.5°	413.6	448.9	638.9	945.2	1083.4
135°	435.3	471.6	636.3	902.8	1020.4
137.5°	455.8	491.1	636.1	866.8	968.5
140°	471.2	507.5	635.1	837.0	934.7
142.5°	488.6	518.9	638.1	813.2	900.9
145°	513.4	539.7	641.5	781.3	851.4
147.5°	534.7	560.2	647.1	749.1	809.7
150°	553.1	570.6	649.1	738.5	781.0
152.5°	567.5	586.0	651.2	724.0	763.6
155°	586.4	600.2	656.8	706.1	734.9
157.5°	610.0	618.2	658.1	698.0	718.5
160°	622.3	628.5	663.2	691.8	709.3
162.5°	629.4	636.7	664.2	686.6	700.1
165°	647.9	650.4	664.5	678.8	688.8
167.5°	660.4	658.2	670.4	676.9	680.9
170°	664.5	663.3	668.3	669.7	674.7
172.5°	673.7	669.5	671.4	667.7	671.7
175°	678.6	674.8	672.2	668.2	663.2
177.5°	680.6	674.6	671.4	667.3	668.3
180°	673.5	673.5	673.5	673.5	673.5

(END OF REPORT)