

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: P563590

Luminaire Tested: **SQ4-PP3-100U-075D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563590  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-100U-075D-835-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

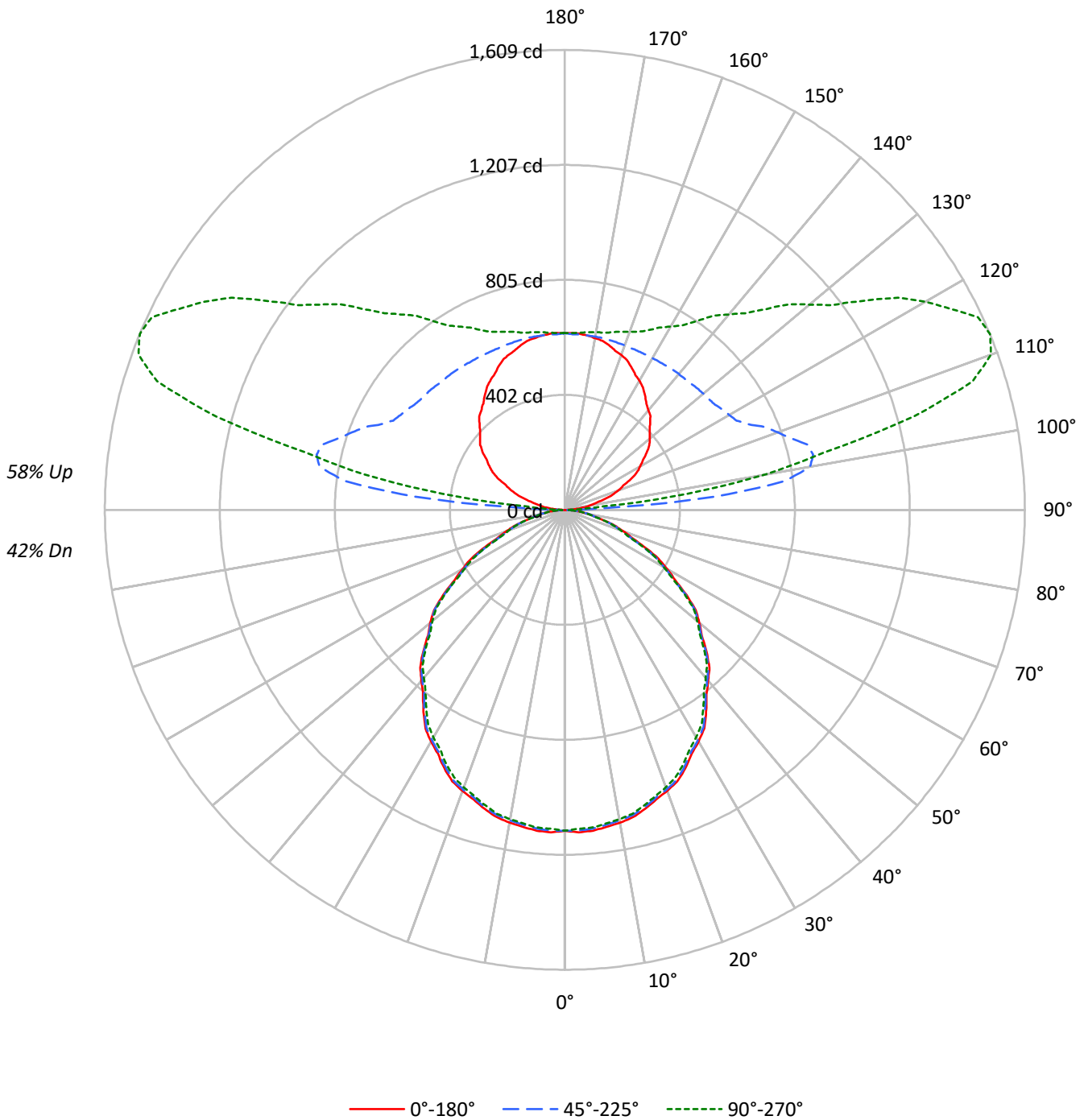
Lumens per Lamp: N/A  
Luminaire Lumens: 6890.7 lumens  
Efficiency: N/A  
Efficacy: 140.3 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 49.1  
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: P563590  
CATALOG NUMBER: SQ4-PP3-100U-075D-835-1D-UNV-STD-W-4

### Luminous Intensity Polar Plot





TEST NUMBER: P563590

CATALOG NUMBER: SQ4-PP3-100U-075D-835-1D-UNV-STD-W-4

**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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	42
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	35
2	88	80	74	69	80	74	68	64	61	57	54	49	46	44	38	36	35	30
3	80	71	64	58	73	65	59	54	54	49	45	43	40	38	34	32	30	26
4	73	63	55	49	67	57	51	46	48	43	39	39	35	32	30	28	26	22
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	27	25	23	19
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	25	22	20	17
7	57	45	37	32	52	42	35	30	35	29	26	29	25	22	23	20	18	15
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16	13
9	49	37	30	25	45	34	28	23	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°	10356	10356	10356
5°	10433	10369	10333
10°	10415	10342	10295
15°	10346	10290	10234
20°	10278	10220	10142
25°	10156	10085	9986
30°	9967	9915	9790
35°	9707	9640	9518
40°	9397	9338	9230
45°	9140	9076	8986
50°	8812	8756	8671
55°	8356	8245	8181
60°	7606	7388	7353
65°	6702	6423	6401
70°	5786	5546	5546
75°	4980	4909	4841
80°	4389	4442	4341
85°	3440	3747	3747



TEST NUMBER: P563590

CATALOG NUMBER: SQ4-PP3-100U-075D-835-1D-UNV-STD-W-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.1	1.5
10°-20°	303.1	4.4
20°-30°	454.0	6.6
30°-40°	532.5	7.7
40°-50°	534.2	7.8
50°-60°	455.7	6.6
60°-70°	297.2	4.3
70°-80°	149.1	2.2
80°-90°	42.5	0.6
90°-100°	289.5	4.2
100°-110°	799.1	11.6
110°-120°	824.2	12.0
120°-130°	662.3	9.6
130°-140°	520.5	7.6
140°-150°	399.2	5.8
150°-160°	286.9	4.2
160°-170°	175.5	2.5
170°-180°	59.2	0.9
0°-30°	863.2	12.5
0°-40°	1395.7	20.3
0°-60°	2385.6	34.6
0°-90°	2874.4	41.7
90°-120°	1912.8	27.8
90°-150°	3494.8	50.7
90°-180°	4016.0	58.3
0°-180°	6890.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1122	1122	1122	1122	1122	
5°	1126	1116	1120	1116	1116	107
15°	1083	1073	1077	1073	1071	306
25°	998	986	991	982	981	459
35°	862	853	856	846	845	538
45°	700	696	696	689	689	539
55°	520	518	513	510	509	462
65°	307	301	294	292	293	306
75°	140	140	138	137	136	152
85°	32	35	35	35	35	38
90°	2	4	8	9	10	4
95°	42	157	525	216	140	45
105°	142	220	879	1342	1264	152
115°	255	308	708	1402	1594	251
125°	350	398	642	1086	1275	312
135°	421	467	624	880	992	326
145°	489	522	616	749	806	306
155°	551	569	611	672	693	254
165°	596	604	614	638	643	168
175°	618	619	615	624	622	59
180°	618	618	618	618	618	



TEST NUMBER: P563590

CATALOG NUMBER: SQ4-PP3-100U-075D-835-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1122.5	1122.5	1122.5	1122.5	1122.5
2.5°	1129.6	1120.4	1122.5	1120.9	1116.3
5°	1126.5	1115.9	1119.6	1115.7	1115.7
7.5°	1118.8	1107.3	1110.9	1107.0	1106.8
10°	1111.7	1100.2	1103.9	1099.9	1098.9
12.5°	1101.5	1090.0	1094.4	1089.7	1089.5
15°	1083.2	1072.6	1077.3	1073.3	1071.4
17.5°	1062.5	1051.0	1056.6	1051.1	1050.3
20°	1046.8	1035.3	1040.9	1033.0	1033.0
22.5°	1027.9	1016.4	1022.8	1012.6	1012.6
25°	997.6	986.1	990.7	981.8	980.9
27.5°	961.6	950.2	955.1	945.1	944.9
30°	935.6	925.0	930.7	919.9	918.9
32.5°	907.3	897.5	901.6	890.7	889.8
35°	861.8	853.2	855.9	846.1	845.1
37.5°	814.0	805.2	808.3	799.8	799.5
40°	780.2	774.4	775.3	768.3	766.4
42.5°	748.7	742.2	743.0	736.1	735.7
45°	700.5	695.7	695.6	688.7	688.7
47.5°	649.3	645.7	644.6	638.9	638.7
50°	613.9	611.0	610.0	605.0	604.1
52.5°	576.9	575.6	572.2	568.1	567.9
55°	519.5	517.5	512.6	509.6	508.6
57.5°	457.1	453.2	447.6	443.3	444.1
60°	412.2	408.4	400.4	398.5	398.5
62.5°	368.9	364.3	356.3	353.6	355.2
65°	307.0	301.2	294.2	292.2	293.2
67.5°	250.7	245.5	237.9	237.9	237.1
70°	214.5	211.6	205.6	205.6	205.6
72.5°	182.2	180.9	176.5	176.5	175.7
75°	139.7	139.7	137.7	136.7	135.8
77.5°	104.7	105.1	104.1	103.1	101.3
80°	82.6	84.6	83.6	82.6	81.7
82.5°	62.2	64.1	63.9	62.2	62.0
85°	32.5	35.4	35.4	35.4	35.4
87.5°	9.1	12.5	14.2	14.4	15.4
90°	2.0	3.9	7.9	8.9	9.9
92.5°	17.8	73.9	132.1	48.2	37.6
95°	42.5	156.6	525.2	215.9	140.4
97.5°	70.4	175.4	778.0	599.0	433.8
100°	91.0	186.7	871.3	877.5	713.1
102.5°	110.8	199.5	889.5	1084.2	928.3
105°	142.4	219.8	879.2	1342.3	1264.0
107.5°	176.0	244.9	830.2	1466.8	1495.4
110°	199.8	261.7	792.2	1493.5	1586.4



TEST NUMBER: P563590

CATALOG NUMBER: SQ4-PP3-100U-075D-835-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	221.1	280.7	756.6	1472.4	1609.3
115°	255.2	308.4	708.1	1401.9	1594.3
117.5°	284.8	337.8	676.3	1302.6	1521.5
120°	304.6	356.8	663.6	1235.3	1455.8
122.5°	323.6	373.5	653.3	1172.6	1381.5
125°	350.1	398.5	641.9	1086.3	1274.8
127.5°	372.7	421.0	635.1	1013.3	1175.9
130°	387.7	436.0	632.0	968.6	1116.6
132.5°	401.9	448.0	628.8	931.1	1065.2
135°	421.3	466.8	624.1	879.8	992.0
137.5°	443.1	484.5	621.7	836.7	932.4
140°	454.9	495.6	620.1	808.0	892.1
142.5°	468.4	505.9	618.5	782.4	856.5
145°	488.6	522.4	616.2	749.0	806.0
147.5°	508.0	537.5	614.0	720.8	765.1
150°	522.2	546.4	613.2	704.0	739.8
152.5°	533.3	555.9	612.4	689.6	719.2
155°	550.9	569.3	611.2	672.0	693.3
157.5°	567.1	581.2	611.4	659.2	673.7
160°	576.6	589.2	612.2	652.0	662.6
162.5°	584.5	595.5	613.0	645.6	653.9
165°	596.4	604.1	614.2	638.0	642.9
167.5°	605.5	610.1	615.2	633.4	634.9
170°	610.2	614.1	615.2	631.0	631.0
172.5°	614.2	616.5	615.2	627.8	627.0
175°	618.1	619.1	615.2	624.0	622.1
177.5°	619.7	618.9	615.0	620.5	618.9
180°	618.1	618.1	618.1	618.1	618.1

(END OF REPORT)