

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: P564298

Luminaire Tested: **SQ4-PR1-100U-100D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564298
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-100D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

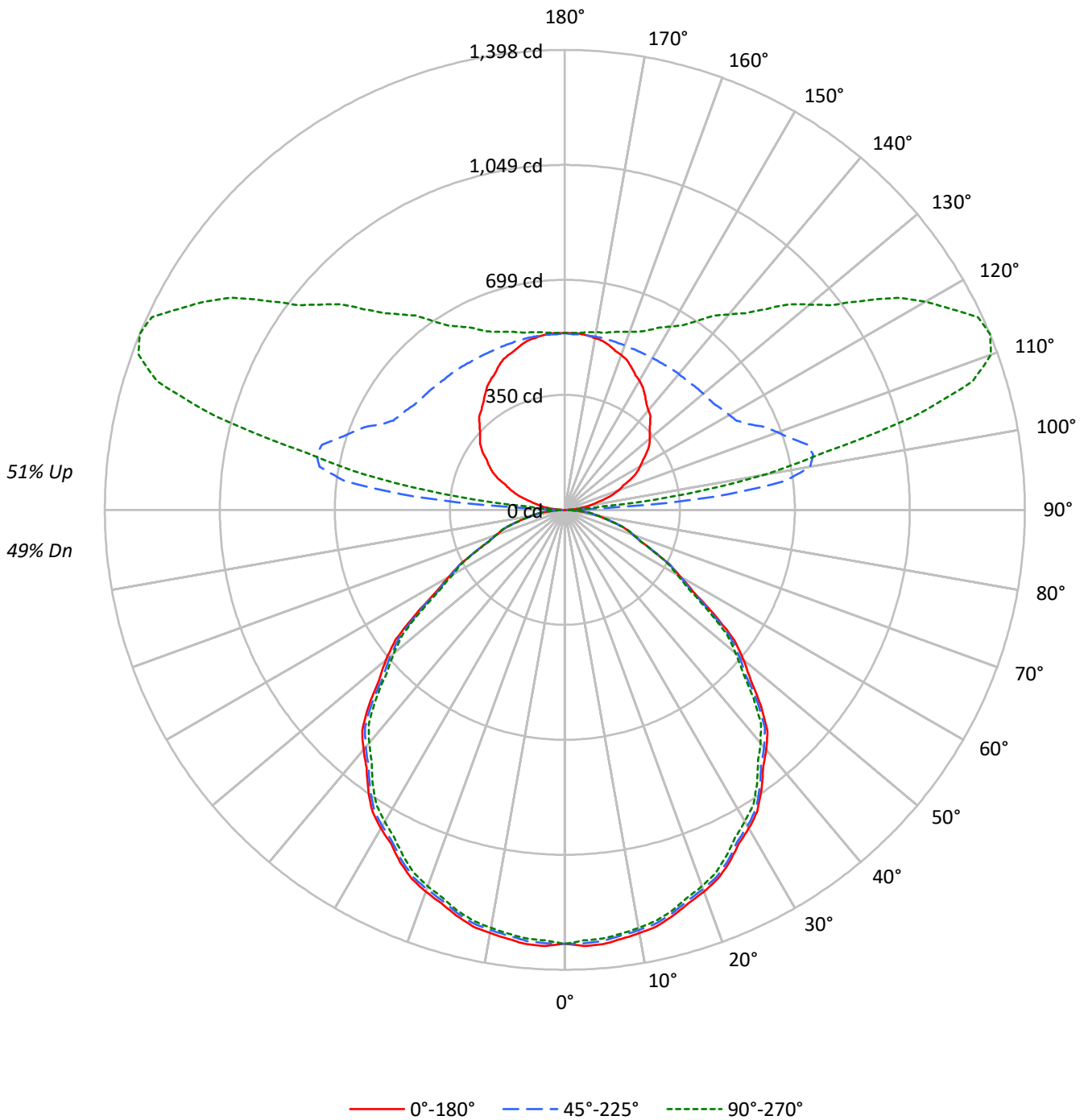
Lumens per Lamp: N/A
Luminaire Lumens: 6788.2 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 57.9
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: P564298
CATALOG NUMBER: SQ4-PR1-100U-100D-935-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P564298

CATALOG NUMBER: SQ4-PR1-100U-100D-935-1D-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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	98	94	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41
2	89	82	76	71	82	76	71	66	64	60	57	53	51	48	43	42	40	35
3	82	72	65	59	75	67	61	56	57	52	48	47	44	41	39	36	34	30
4	75	64	56	50	69	59	53	47	51	45	41	42	39	35	35	32	30	26
5	69	57	49	43	63	53	46	41	45	40	36	38	34	31	31	28	26	23
6	63	51	43	38	58	48	41	36	41	35	31	34	30	27	28	25	23	20
7	59	46	39	33	54	43	36	31	37	32	28	31	27	24	26	23	20	18
8	54	42	34	29	50	39	32	28	34	28	25	29	24	21	24	21	18	16
9	51	38	31	26	47	36	29	25	31	26	22	26	22	19	22	19	17	14
10	47	35	28	23	44	33	27	22	29	23	20	24	20	17	20	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12169	12169	12169
5°	12279	12184	12121
10°	12240	12155	12091
15°	12186	12111	12046
20°	12125	12047	11958
25°	12040	11958	11820
30°	11910	11825	11656
35°	11734	11631	11465
40°	11466	11343	11138
45°	10999	10806	10584
50°	10175	9931	9736
55°	8881	8680	8498
60°	7484	7422	7274
65°	6473	6499	6449
70°	5945	5975	5975
75°	5711	5711	5750
80°	5372	5430	5372
85°	4330	4806	4806



TEST NUMBER: P564298

CATALOG NUMBER: SQ4-PR1-100U-100D-935-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.7	1.8
10°-20°	356.9	5.3
20°-30°	538.3	7.9
30°-40°	641.4	9.4
40°-50°	632.3	9.3
50°-60°	483.2	7.1
60°-70°	299.1	4.4
70°-80°	169.9	2.5
80°-90°	52.8	0.8
90°-100°	251.5	3.7
100°-110°	694.4	10.2
110°-120°	716.1	10.5
120°-130°	575.5	8.5
130°-140°	452.3	6.7
140°-150°	346.9	5.1
150°-160°	249.3	3.7
160°-170°	152.5	2.2
170°-180°	51.4	0.8
0°-30°	1019.9	15.0
0°-40°	1661.2	24.5
0°-60°	2776.8	40.9
0°-90°	3298.5	48.6
90°-120°	1662.0	24.5
90°-150°	3036.6	44.7
90°-180°	3490.0	51.4
0°-180°	6788.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1319	1319	1319	1319	1319	
5°	1326	1311	1316	1311	1309	126
15°	1276	1262	1268	1263	1261	360
25°	1183	1168	1175	1162	1161	544
35°	1042	1030	1033	1019	1018	650
45°	843	832	828	813	811	646
55°	552	543	540	530	528	495
65°	296	294	298	295	295	300
75°	160	160	160	161	161	169
85°	41	43	45	45	45	48
90°	2	3	7	8	9	4
95°	37	136	456	188	122	40
105°	124	191	764	1166	1098	132
115°	222	268	615	1218	1385	218
125°	304	346	558	944	1108	271
135°	366	406	542	764	862	283
145°	424	454	535	651	700	266
155°	479	495	531	584	602	221
165°	518	525	534	554	559	146
175°	537	538	534	542	540	51
180°	537	537	537	537	537	



TEST NUMBER: P564298

CATALOG NUMBER: SQ4-PR1-100U-100D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1319.0	1319.0	1319.0	1319.0	1319.0
2.5°	1327.2	1315.6	1319.0	1316.1	1309.9
5°	1325.8	1311.4	1315.6	1311.0	1308.8
7.5°	1315.6	1301.4	1305.6	1301.0	1299.7
10°	1306.5	1293.2	1297.4	1292.8	1290.6
12.5°	1296.5	1282.3	1287.4	1281.9	1279.7
15°	1275.8	1262.5	1267.9	1263.3	1261.1
17.5°	1253.1	1238.9	1244.3	1239.0	1236.1
20°	1234.9	1221.6	1227.0	1219.0	1217.9
22.5°	1214.9	1201.6	1207.0	1196.3	1196.1
25°	1182.7	1168.2	1174.7	1162.2	1161.1
27.5°	1144.3	1130.9	1136.3	1123.6	1122.2
30°	1117.9	1104.6	1110.0	1096.3	1094.1
32.5°	1087.9	1075.5	1080.0	1066.3	1065.0
35°	1041.8	1029.6	1032.7	1019.1	1017.9
37.5°	989.3	978.2	980.0	965.0	963.9
40°	952.0	940.9	941.8	925.9	924.8
42.5°	911.2	900.0	899.1	883.2	882.1
45°	843.0	831.9	828.2	813.4	811.2
47.5°	765.3	754.2	747.3	735.2	733.7
50°	708.9	697.8	691.9	681.6	678.3
52.5°	648.0	636.9	631.9	622.5	619.2
55°	552.1	543.3	539.6	530.5	528.3
57.5°	461.0	455.0	454.0	445.1	444.2
60°	405.6	402.3	402.2	394.2	394.2
62.5°	358.3	355.9	357.6	352.4	351.5
65°	296.5	294.3	297.7	295.4	295.4
67.5°	247.7	247.7	249.7	248.8	248.8
70°	220.4	220.4	221.5	221.5	221.5
72.5°	195.9	195.0	197.9	197.9	197.0
75°	160.2	160.2	160.2	161.3	161.3
77.5°	124.7	125.0	125.9	125.6	124.7
80°	101.1	102.2	102.2	101.1	101.1
82.5°	77.5	78.6	78.6	78.4	77.5
85°	40.9	43.1	45.4	45.4	45.4
87.5°	12.2	16.0	19.6	19.7	19.0
90°	1.7	3.4	6.9	7.8	8.6
92.5°	15.5	64.2	114.8	41.9	32.7
95°	37.0	136.1	456.3	187.6	122.0
97.5°	61.2	152.4	676.0	520.4	376.9
100°	79.1	162.2	757.1	762.4	619.6
102.5°	96.2	173.4	772.9	942.0	806.6
105°	123.7	191.0	764.0	1166.3	1098.2
107.5°	153.0	212.8	721.3	1274.5	1299.3
110°	173.6	227.4	688.3	1297.7	1378.4



TEST NUMBER: P564298

CATALOG NUMBER: SQ4-PR1-100U-100D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	192.2	243.9	657.4	1279.4	1398.3
115°	221.7	267.9	615.3	1218.1	1385.3
117.5°	247.5	293.5	587.6	1131.8	1322.0
120°	264.7	310.1	576.6	1073.4	1265.0
122.5°	281.2	324.5	567.7	1018.8	1200.3
125°	304.2	346.2	557.7	943.9	1107.7
127.5°	323.8	365.8	551.9	880.4	1021.8
130°	336.9	378.9	549.1	841.6	970.2
132.5°	349.2	389.2	546.4	809.1	925.5
135°	366.1	405.6	542.2	764.5	861.9
137.5°	385.0	421.0	540.2	727.0	810.2
140°	395.3	430.6	538.8	702.0	775.1
142.5°	407.0	439.6	537.4	679.8	744.2
145°	424.5	453.9	535.4	650.8	700.4
147.5°	441.4	467.1	533.5	626.3	664.8
150°	453.7	474.7	532.8	611.7	642.8
152.5°	463.4	483.0	532.1	599.2	624.9
155°	478.7	494.6	531.1	583.9	602.4
157.5°	492.8	505.0	531.2	572.8	585.4
160°	501.0	511.9	531.9	566.5	575.8
162.5°	507.9	517.5	532.6	561.0	568.2
165°	518.2	524.9	533.7	554.4	558.6
167.5°	526.1	530.1	534.5	550.4	551.7
170°	530.2	533.6	534.5	548.3	548.3
172.5°	533.7	535.7	534.5	545.5	544.8
175°	537.1	537.9	534.5	542.2	540.5
177.5°	538.5	537.8	534.3	539.1	537.8
180°	537.1	537.1	537.1	537.1	537.1

(END OF REPORT)