

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: P564295

Luminaire Tested: **SQ4-PR1-100U-100D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564295  
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-930-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

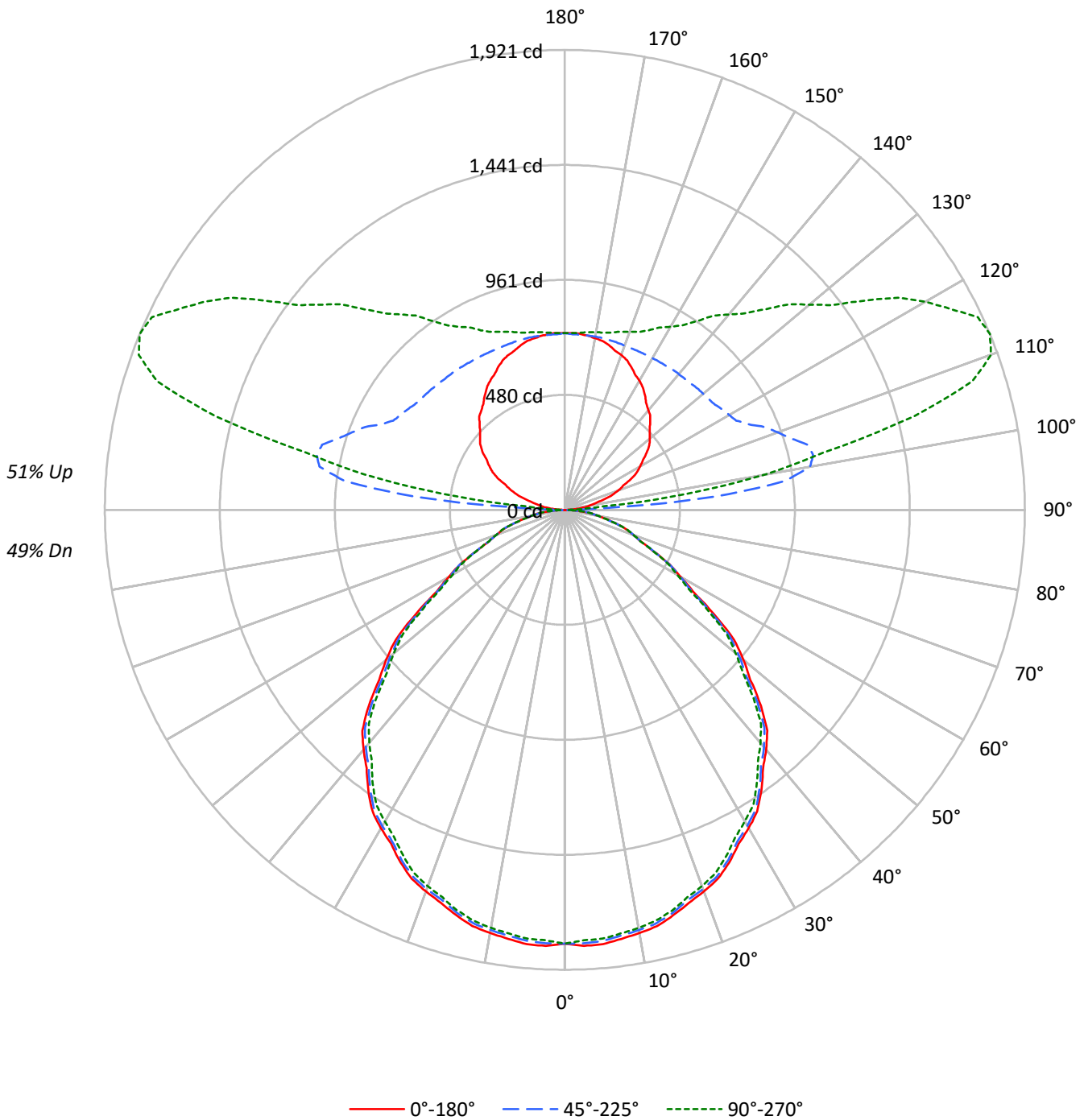
Lumens per Lamp: N/A  
Luminaire Lumens: 9325.3 lumens  
Efficiency: N/A  
Efficacy: 100.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 92.9  
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



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### Luminous Intensity Polar Plot





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**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	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°	11145	11145	11145
5°	11245	11159	11101
10°	11210	11132	11074
15°	11161	11091	11032
20°	11105	11033	10951
25°	11026	10952	10825
30°	10907	10830	10675
35°	10747	10653	10500
40°	10502	10388	10200
45°	10073	9897	9693
50°	9319	9095	8915
55°	8134	7949	7782
60°	6854	6797	6663
65°	5928	5951	5906
70°	5445	5472	5472
75°	5231	5231	5266
80°	4920	4977	4920
85°	3966	4404	4404



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.4	1.8
10°-20°	490.2	5.3
20°-30°	739.5	7.9
30°-40°	881.1	9.4
40°-50°	868.6	9.3
50°-60°	663.9	7.1
60°-70°	410.8	4.4
70°-80°	233.3	2.5
80°-90°	72.5	0.8
90°-100°	345.5	3.7
100°-110°	953.9	10.2
110°-120°	983.8	10.5
120°-130°	790.5	8.5
130°-140°	621.3	6.7
140°-150°	476.5	5.1
150°-160°	342.5	3.7
160°-170°	209.4	2.2
170°-180°	70.6	0.8
0°-30°	1401.1	15.0
0°-40°	2282.1	24.5
0°-60°	3814.6	40.9
0°-90°	4531.3	48.6
90°-120°	2283.2	24.5
90°-150°	4171.5	44.7
90°-180°	4794.0	51.4
0°-180°	9325.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1812	1812	1812	1812	1812	
5°	1821	1802	1807	1801	1798	173
15°	1753	1734	1742	1735	1732	495
25°	1625	1605	1614	1597	1595	748
35°	1431	1414	1419	1400	1398	893
45°	1158	1143	1138	1117	1114	887
55°	758	746	741	729	726	680
65°	407	404	409	406	406	413
75°	220	220	220	222	222	232
85°	56	59	62	62	62	65
90°	2	5	9	11	12	6
95°	51	187	627	258	168	54
105°	170	262	1050	1602	1509	181
115°	305	368	845	1673	1903	299
125°	418	476	766	1297	1522	372
135°	503	557	745	1050	1184	389
145°	583	624	736	894	962	365
155°	658	680	730	802	828	303
165°	712	721	733	762	767	201
175°	738	739	734	745	742	70
180°	738	738	738	738	738	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1812.0	1812.0	1812.0	1812.0	1812.0
2.5°	1823.2	1807.3	1812.0	1808.0	1799.5
5°	1821.3	1801.5	1807.3	1801.0	1797.9
7.5°	1807.3	1787.8	1793.6	1787.3	1785.4
10°	1794.8	1776.5	1782.3	1776.0	1773.0
12.5°	1781.1	1761.5	1768.6	1761.0	1758.0
15°	1752.7	1734.4	1741.7	1735.4	1732.4
17.5°	1721.5	1701.9	1709.3	1702.0	1698.0
20°	1696.5	1678.2	1685.6	1674.6	1673.1
22.5°	1669.0	1650.7	1658.1	1643.4	1643.1
25°	1624.7	1604.9	1613.8	1596.6	1595.0
27.5°	1571.9	1553.6	1561.0	1543.5	1541.7
30°	1535.7	1517.4	1524.8	1506.0	1503.0
32.5°	1494.5	1477.4	1483.6	1464.8	1463.0
35°	1431.2	1414.4	1418.7	1399.9	1398.4
37.5°	1359.1	1343.8	1346.3	1325.6	1324.1
40°	1307.9	1292.6	1293.8	1271.9	1270.4
42.5°	1251.7	1236.4	1235.1	1213.3	1211.7
45°	1158.0	1142.8	1137.8	1117.4	1114.3
47.5°	1051.3	1036.0	1026.6	1010.0	1007.9
50°	973.9	958.6	950.5	936.3	931.7
52.5°	890.2	875.0	868.1	855.2	850.6
55°	758.5	746.3	741.3	728.8	725.7
57.5°	633.3	625.1	623.7	611.5	610.2
60°	557.2	552.6	552.5	541.6	541.6
62.5°	492.2	488.9	491.3	484.1	482.9
65°	407.3	404.3	408.9	405.8	405.8
67.5°	340.2	340.2	343.0	341.8	341.8
70°	302.8	302.8	304.3	304.3	304.3
72.5°	269.1	267.8	271.9	271.8	270.6
75°	220.1	220.1	220.1	221.6	221.6
77.5°	171.4	171.7	172.9	172.6	171.4
80°	138.9	140.4	140.5	138.9	138.9
82.5°	106.4	108.0	108.0	107.7	106.4
85°	56.2	59.2	62.4	62.4	62.4
87.5°	16.7	22.0	26.9	27.1	26.1
90°	2.4	4.7	9.4	10.7	11.8
92.5°	21.2	88.2	157.7	57.6	44.9
95°	50.8	187.0	626.9	257.7	167.6
97.5°	84.1	209.4	928.6	714.9	517.8
100°	108.6	222.9	1040.0	1047.4	851.2
102.5°	132.2	238.2	1061.8	1294.1	1108.0
105°	170.0	262.3	1049.5	1602.2	1508.7
107.5°	210.1	292.3	990.9	1750.8	1784.9
110°	238.5	312.3	945.6	1782.7	1893.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	264.0	335.1	903.1	1757.5	1920.9
115°	304.6	368.1	845.3	1673.3	1903.0
117.5°	340.0	403.2	807.2	1554.8	1816.1
120°	363.6	425.9	792.1	1474.6	1737.7
122.5°	386.3	445.8	779.9	1399.6	1649.0
125°	417.9	475.6	766.2	1296.6	1521.7
127.5°	444.8	502.5	758.1	1209.5	1403.6
130°	462.8	520.5	754.4	1156.2	1332.8
132.5°	479.8	534.7	750.6	1111.4	1271.4
135°	502.9	557.2	744.9	1050.2	1184.1
137.5°	528.9	578.3	742.1	998.7	1113.0
140°	543.0	591.5	740.2	964.4	1064.8
142.5°	559.1	603.9	738.3	933.9	1022.3
145°	583.2	623.6	735.5	894.0	962.1
147.5°	606.3	641.6	732.9	860.4	913.3
150°	623.3	652.2	731.9	840.3	883.0
152.5°	636.5	663.5	731.0	823.2	858.5
155°	657.6	679.5	729.6	802.2	827.5
157.5°	676.9	693.8	729.8	786.9	804.2
160°	688.2	703.2	730.7	778.3	790.9
162.5°	697.7	710.8	731.7	770.6	780.6
165°	711.9	721.1	733.1	761.6	767.3
167.5°	722.7	728.3	734.3	756.0	757.9
170°	728.4	733.0	734.3	753.2	753.2
172.5°	733.1	735.9	734.3	749.4	748.5
175°	737.8	739.0	734.3	744.9	742.5
177.5°	739.7	738.8	734.0	740.6	738.8
180°	737.8	737.8	737.8	737.8	737.8

(END OF REPORT)