

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: P564299

Luminaire Tested: **SQ4-PR1-100U-100D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564299  
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-6  
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**

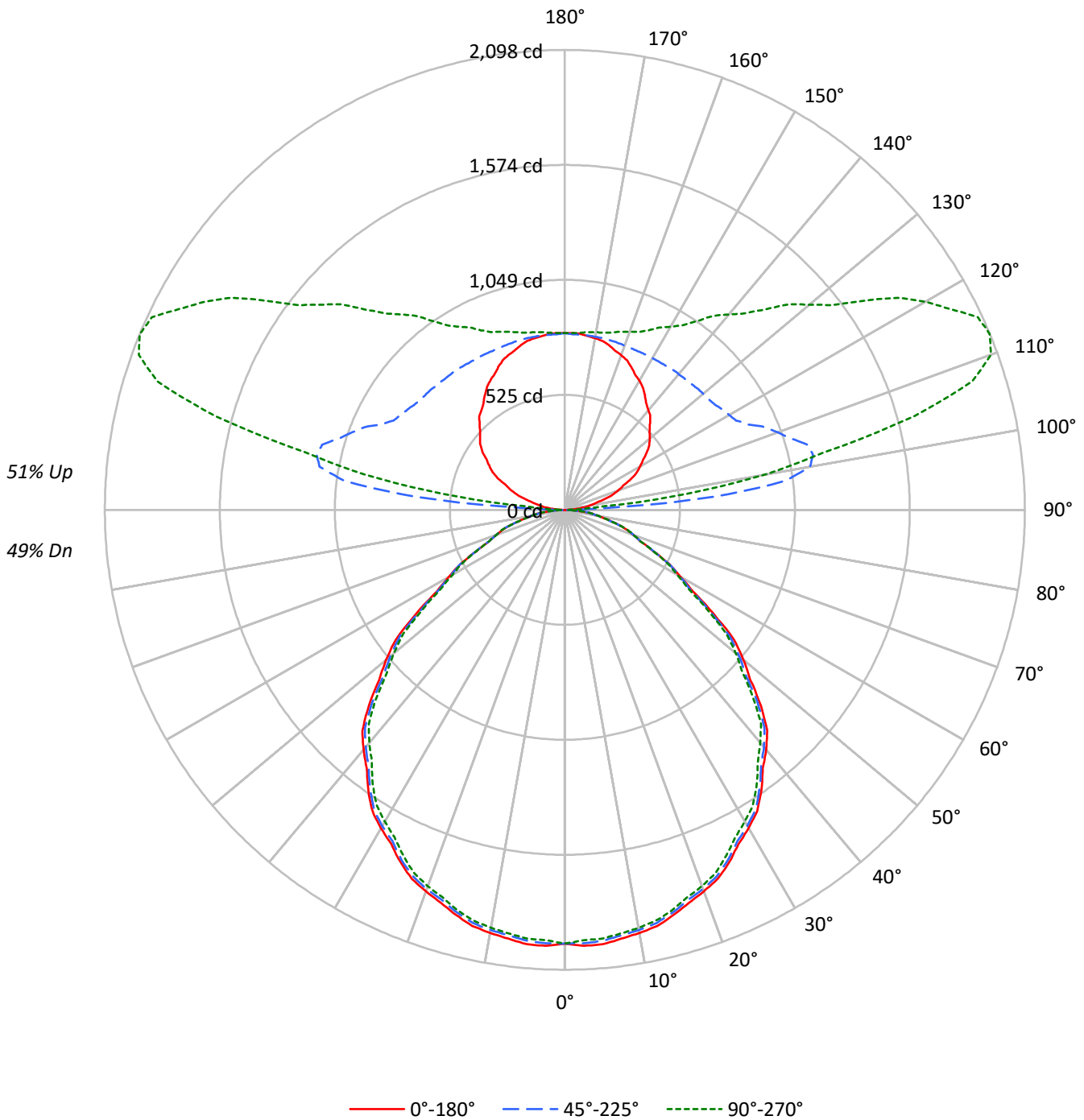
Lumens per Lamp: N/A  
Luminaire Lumens: 10182.4 lumens  
Efficiency: N/A  
Efficacy: 109.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: General Diffuse

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				
RC	80					70					50					30				
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°	12187	12110	12045
20°	12125	12047	11957
25°	12040	11959	11820
30°	11910	11825	11656
35°	11734	11632	11465
40°	11467	11343	11138
45°	10999	10806	10584
50°	10176	9931	9735
55°	8881	8681	8497
60°	7484	7422	7274
65°	6474	6498	6449
70°	5945	5976	5976
75°	5711	5711	5751
80°	5373	5434	5373
85°	4326	4813	4813



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	187.1	1.8
10°-20°	535.3	5.3
20°-30°	807.4	7.9
30°-40°	962.0	9.4
40°-50°	948.5	9.3
50°-60°	724.9	7.1
60°-70°	448.6	4.4
70°-80°	254.8	2.5
80°-90°	79.2	0.8
90°-100°	377.3	3.7
100°-110°	1041.6	10.2
110°-120°	1074.2	10.5
120°-130°	863.2	8.5
130°-140°	678.4	6.7
140°-150°	520.3	5.1
150°-160°	373.9	3.7
160°-170°	228.7	2.2
170°-180°	77.1	0.8
0°-30°	1529.8	15.0
0°-40°	2491.9	24.5
0°-60°	4165.2	40.9
0°-90°	4947.8	48.6
90°-120°	2493.0	24.5
90°-150°	4554.9	44.7
90°-180°	5235.0	51.4
0°-180°	10182.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1978	1978	1978	1978	1978	
5°	1989	1967	1973	1966	1963	189
15°	1914	1894	1902	1895	1892	540
25°	1774	1752	1762	1743	1742	816
35°	1563	1544	1549	1529	1527	975
45°	1264	1248	1242	1220	1217	969
55°	828	815	810	796	792	742
65°	445	441	446	443	443	451
75°	240	240	240	242	242	254
85°	61	65	68	68	68	71
90°	3	5	10	12	13	6
95°	55	204	684	281	183	59
105°	186	286	1146	1750	1647	197
115°	333	402	923	1827	2078	327
125°	456	519	837	1416	1662	406
135°	549	608	813	1147	1293	425
145°	637	681	803	976	1051	399
155°	718	742	797	876	904	331
165°	777	787	800	832	838	219
175°	806	807	802	813	811	77
180°	806	806	806	806	806	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1978.5	1978.5	1978.5	1978.5	1978.5
2.5°	1990.8	1973.5	1978.5	1974.2	1964.9
5°	1988.7	1967.1	1973.4	1966.5	1963.2
7.5°	1973.4	1952.1	1958.4	1951.5	1949.5
10°	1959.8	1939.8	1946.1	1939.2	1935.9
12.5°	1944.8	1923.4	1931.1	1922.9	1919.6
15°	1913.8	1893.8	1901.8	1894.9	1891.6
17.5°	1879.7	1858.3	1866.4	1858.4	1854.1
20°	1852.4	1832.4	1840.5	1828.5	1826.8
22.5°	1822.4	1802.4	1810.5	1794.5	1794.1
25°	1774.0	1752.4	1762.1	1743.3	1741.6
27.5°	1716.4	1696.4	1704.5	1685.4	1683.4
30°	1676.9	1656.9	1665.0	1644.4	1641.1
32.5°	1631.9	1613.2	1620.0	1599.5	1597.5
35°	1562.7	1544.4	1549.1	1528.6	1526.9
37.5°	1484.0	1467.3	1470.0	1447.5	1445.8
40°	1428.1	1411.4	1412.7	1388.8	1387.2
42.5°	1366.7	1350.1	1348.7	1324.8	1323.1
45°	1264.5	1247.8	1242.3	1220.1	1216.8
47.5°	1147.9	1131.3	1121.0	1102.9	1100.5
50°	1063.4	1046.7	1037.8	1022.4	1017.4
52.5°	972.0	955.4	947.8	933.8	928.8
55°	828.2	814.9	809.5	795.8	792.4
57.5°	691.5	682.5	681.0	667.7	666.3
60°	608.4	603.4	603.3	591.3	591.3
62.5°	537.5	533.8	536.5	528.6	527.3
65°	444.8	441.4	446.5	443.1	443.1
67.5°	371.5	371.5	374.6	373.2	373.2
70°	330.6	330.6	332.3	332.3	332.3
72.5°	293.8	292.5	296.9	296.8	295.5
75°	240.3	240.3	240.3	242.0	242.0
77.5°	187.1	187.4	188.8	188.4	187.1
80°	151.7	153.3	153.4	151.7	151.7
82.5°	116.2	117.9	117.9	117.6	116.2
85°	61.3	64.7	68.2	68.2	68.2
87.5°	18.2	24.1	29.3	29.6	28.5
90°	2.6	5.1	10.3	11.6	12.9
92.5°	23.2	96.3	172.2	62.8	49.0
95°	55.4	204.2	684.5	281.4	183.0
97.5°	91.8	228.7	1013.9	780.6	565.4
100°	118.6	243.4	1135.6	1143.7	929.4
102.5°	144.4	260.1	1159.3	1413.1	1209.9
105°	185.6	286.4	1145.9	1749.5	1647.4
107.5°	229.4	319.2	1082.0	1911.7	1949.0
110°	260.4	341.0	1032.5	1946.6	2067.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	288.2	365.9	986.1	1919.0	2097.5
115°	332.6	401.9	922.9	1827.1	2077.9
117.5°	371.2	440.3	881.4	1697.7	1983.0
120°	397.0	465.1	864.9	1610.1	1897.4
122.5°	421.8	486.8	851.5	1528.3	1800.5
125°	456.3	519.3	836.6	1415.8	1661.6
127.5°	485.7	548.7	827.8	1320.7	1532.6
130°	505.3	568.3	823.7	1262.5	1455.3
132.5°	523.9	583.9	819.6	1213.6	1388.3
135°	549.1	608.4	813.4	1146.7	1292.9
137.5°	577.5	631.4	810.3	1090.5	1215.3
140°	593.0	645.9	808.2	1053.0	1162.7
142.5°	610.5	659.4	806.2	1019.7	1116.3
145°	636.8	680.9	803.1	976.2	1050.6
147.5°	662.0	700.6	800.2	939.5	997.2
150°	680.6	712.1	799.2	917.6	964.2
152.5°	695.0	724.5	798.2	898.8	937.4
155°	718.0	741.9	796.6	875.9	903.6
157.5°	739.1	757.5	796.9	859.2	878.1
160°	751.5	767.9	797.9	849.8	863.6
162.5°	761.8	776.2	798.9	841.5	852.3
165°	777.3	787.4	800.5	831.6	837.9
167.5°	789.1	795.2	801.8	825.5	827.6
170°	795.3	800.4	801.8	822.4	822.4
172.5°	800.5	803.5	801.8	818.2	817.2
175°	805.6	806.9	801.8	813.3	810.8
177.5°	807.7	806.7	801.5	808.7	806.7
180°	805.6	805.6	805.6	805.6	805.6

(END OF REPORT)