

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: P563609

Luminaire Tested: **SQ4-PP3-100U-100D-830-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563609  
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-100D-830-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

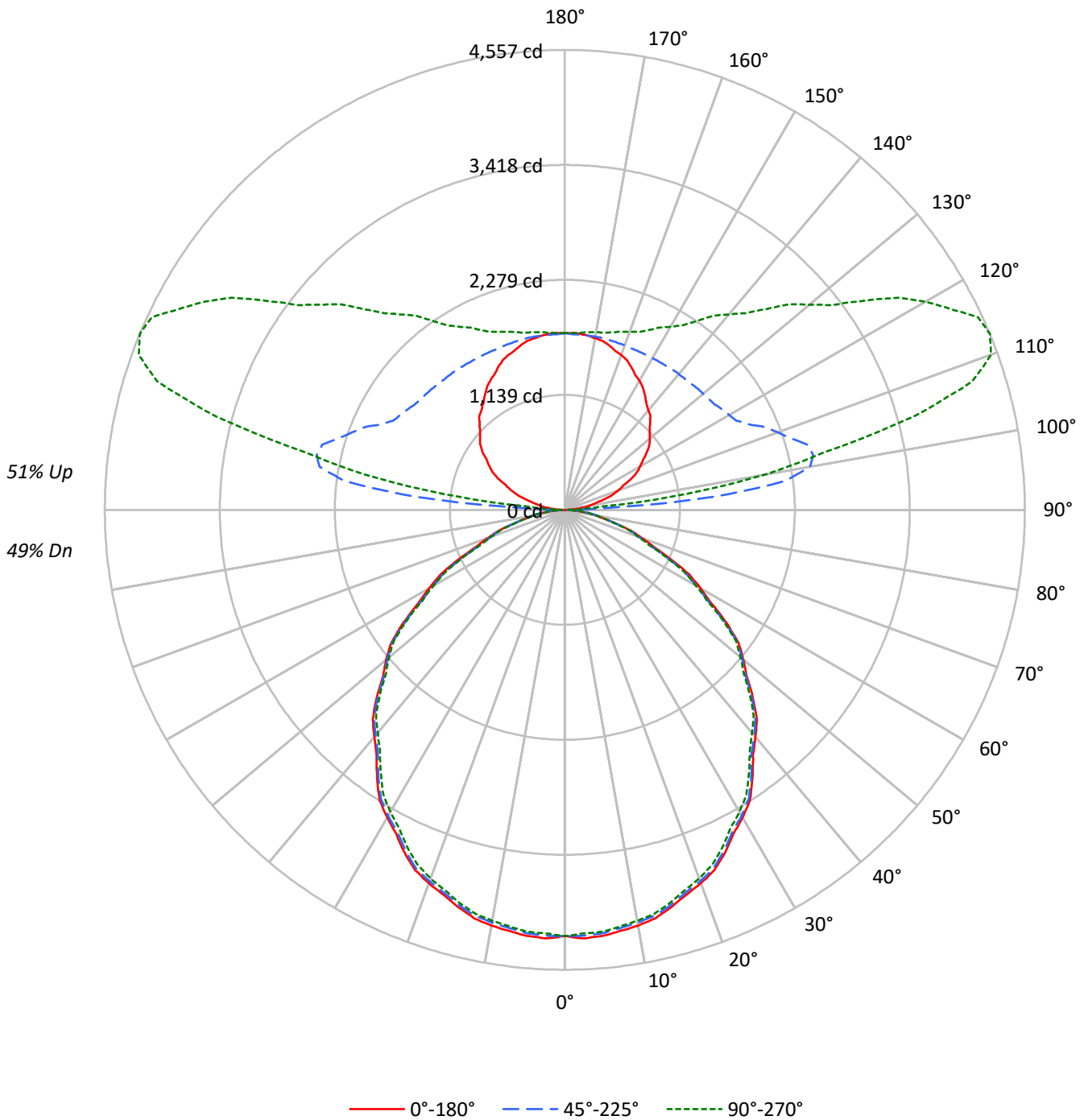
Lumens per Lamp: N/A  
Luminaire Lumens: 22186.5 lumens  
Efficiency: N/A  
Efficacy: 121.8 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 182.2  
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	93	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41				
2	89	82	76	71	82	76	70	66	64	60	57	53	50	48	43	41	40	35				
3	81	72	65	59	75	67	60	55	57	52	48	47	44	41	38	36	34	30				
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	32	29	26				
5	68	57	49	43	63	53	46	40	45	40	35	38	34	30	31	28	26	22				
6	63	51	43	37	58	47	40	35	41	35	31	34	30	27	28	25	23	20				
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	22	20	17				
8	54	42	34	29	50	39	32	27	34	28	24	28	24	21	24	20	18	16				
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	16	14				
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	12989	12989	12989
5°	13084	13004	12959
10°	13062	12970	12912
15°	12976	12905	12835
20°	12890	12817	12720
25°	12737	12649	12523
30°	12501	12435	12277
35°	12174	12091	11938
40°	11785	11710	11577
45°	11463	11382	11269
50°	11051	10980	10874
55°	10480	10340	10261
60°	9540	9267	9221
65°	8404	8054	8027
70°	7256	6956	6956
75°	6245	6157	6070
80°	5506	5572	5441
85°	4312	4704	4704



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	399.4	1.8
10°-20°	1140.4	5.1
20°-30°	1708.1	7.7
30°-40°	2003.5	9.0
40°-50°	2009.8	9.1
50°-60°	1714.5	7.7
60°-70°	1118.1	5.0
70°-80°	561.0	2.5
80°-90°	158.9	0.7
90°-100°	819.7	3.7
100°-110°	2262.9	10.2
110°-120°	2333.8	10.5
120°-130°	1875.4	8.5
130°-140°	1473.9	6.6
140°-150°	1130.4	5.1
150°-160°	812.4	3.7
160°-170°	496.8	2.2
170°-180°	167.5	0.8
0°-30°	3247.8	14.6
0°-40°	5251.3	23.7
0°-60°	8975.6	40.5
0°-90°	10813.6	48.7
90°-120°	5416.4	24.4
90°-150°	9896.1	44.6
90°-180°	11373.0	51.3
0°-180°	22186.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4224	4224	4224	4224	4224	
5°	4238	4198	4212	4198	4198	402
15°	4076	4036	4053	4038	4031	1150
25°	3753	3710	3728	3694	3690	1726
35°	3243	3210	3220	3183	3180	2026
45°	2636	2618	2617	2591	2591	2029
55°	1954	1947	1928	1917	1914	1737
65°	1155	1133	1107	1100	1103	1153
75°	526	526	518	514	511	570
85°	122	133	133	133	133	144
90°	6	11	22	25	28	13
95°	120	444	1487	611	398	129
105°	403	622	2490	3801	3579	429
115°	722	873	2005	3970	4514	710
125°	991	1128	1818	3076	3610	882
135°	1193	1322	1767	2491	2809	923
145°	1384	1479	1745	2121	2282	866
155°	1560	1612	1731	1903	1963	719
165°	1689	1711	1739	1807	1820	476
175°	1750	1753	1742	1767	1762	166
180°	1750	1750	1750	1750	1750	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4223.5	4223.5	4223.5	4223.5	4223.5
2.5°	4250.2	4215.4	4223.5	4217.2	4199.9
5°	4238.3	4198.5	4212.4	4197.6	4197.6
7.5°	4209.5	4166.0	4179.9	4165.0	4164.3
10°	4182.8	4139.4	4153.2	4138.3	4134.7
12.5°	4144.3	4100.9	4117.7	4099.9	4099.2
15°	4075.5	4035.7	4053.3	4038.3	4031.1
17.5°	3997.7	3954.3	3975.5	3954.7	3951.8
20°	3938.5	3895.1	3916.3	3886.7	3886.7
22.5°	3867.4	3824.0	3848.2	3809.7	3809.7
25°	3753.4	3710.0	3727.5	3694.1	3690.5
27.5°	3618.0	3575.2	3593.5	3555.8	3555.0
30°	3520.2	3480.4	3501.7	3460.9	3457.3
32.5°	3413.6	3376.7	3392.2	3351.4	3347.7
35°	3242.6	3210.0	3220.4	3183.3	3179.7
37.5°	3062.7	3029.4	3041.2	3009.4	3007.9
40°	2935.4	2913.7	2916.9	2890.8	2883.6
42.5°	2816.9	2792.3	2795.5	2769.5	2768.1
45°	2635.5	2617.5	2617.0	2591.1	2591.1
47.5°	2443.1	2429.3	2425.3	2403.8	2403.1
50°	2309.8	2298.9	2295.0	2276.4	2272.8
52.5°	2170.6	2165.6	2152.9	2137.3	2136.6
55°	1954.5	1947.2	1928.5	1917.4	1913.7
57.5°	1719.8	1705.3	1684.2	1668.0	1670.9
60°	1551.0	1536.5	1506.6	1499.2	1499.2
62.5°	1388.1	1370.7	1340.7	1330.5	1336.3
65°	1154.9	1133.2	1106.8	1099.5	1103.1
67.5°	943.2	923.6	895.1	895.0	892.1
70°	807.0	796.1	773.6	773.6	773.6
72.5°	685.5	680.5	664.1	664.0	661.1
75°	525.6	525.6	518.2	514.4	510.8
77.5°	393.9	395.3	391.6	387.8	381.3
80°	310.9	318.2	314.6	310.9	307.2
82.5°	233.9	241.2	240.6	233.9	233.2
85°	122.2	133.0	133.3	133.3	133.3
87.5°	33.7	46.4	51.9	52.5	55.9
90°	5.6	11.1	22.4	25.3	28.0
92.5°	50.4	209.2	374.2	136.5	106.4
95°	120.4	443.5	1487.1	611.3	397.7
97.5°	199.4	496.8	2202.9	1696.0	1228.3
100°	257.7	528.7	2467.3	2484.7	2019.2
102.5°	313.7	565.0	2518.8	3070.0	2628.6
105°	403.3	622.3	2489.7	3800.9	3579.1
107.5°	498.5	693.5	2350.8	4153.4	4234.5
110°	565.7	741.0	2243.3	4229.2	4492.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	626.2	794.9	2142.4	4169.3	4557.1
115°	722.5	873.2	2005.2	3969.6	4514.5
117.5°	806.6	956.6	1915.0	3688.4	4308.4
120°	862.6	1010.4	1879.2	3498.1	4122.4
122.5°	916.3	1057.6	1850.1	3320.4	3911.8
125°	991.4	1128.3	1817.6	3076.0	3609.9
127.5°	1055.3	1192.2	1798.5	2869.3	3329.9
130°	1097.8	1234.7	1789.6	2742.9	3161.8
132.5°	1138.2	1268.5	1780.6	2636.7	3016.2
135°	1193.0	1321.7	1767.2	2491.3	2809.0
137.5°	1254.7	1371.9	1760.4	2369.3	2640.4
140°	1288.3	1403.3	1756.0	2287.9	2526.1
142.5°	1326.4	1432.6	1751.5	2215.5	2425.3
145°	1383.5	1479.3	1744.8	2120.9	2282.5
147.5°	1438.4	1522.2	1738.6	2041.1	2166.5
150°	1478.7	1547.2	1736.4	1993.5	2094.8
152.5°	1510.1	1574.1	1734.1	1952.8	2036.6
155°	1559.9	1611.9	1730.8	1903.0	1963.2
157.5°	1605.8	1645.8	1731.3	1866.7	1907.8
160°	1632.7	1668.3	1733.6	1846.3	1876.4
162.5°	1655.1	1686.4	1735.8	1828.2	1851.7
165°	1688.7	1710.7	1739.2	1806.7	1820.4
167.5°	1714.5	1727.7	1742.0	1793.6	1798.0
170°	1728.0	1738.9	1742.0	1786.8	1786.8
172.5°	1739.2	1745.7	1742.0	1777.8	1775.6
175°	1750.4	1753.1	1742.0	1767.0	1761.6
177.5°	1754.8	1752.6	1741.4	1757.0	1752.6
180°	1750.4	1750.4	1750.4	1750.4	1750.4

(END OF REPORT)