

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: P563633

Luminaire Tested: **SQ4-PP3-100U-125D-830-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563633  
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-125D-830-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

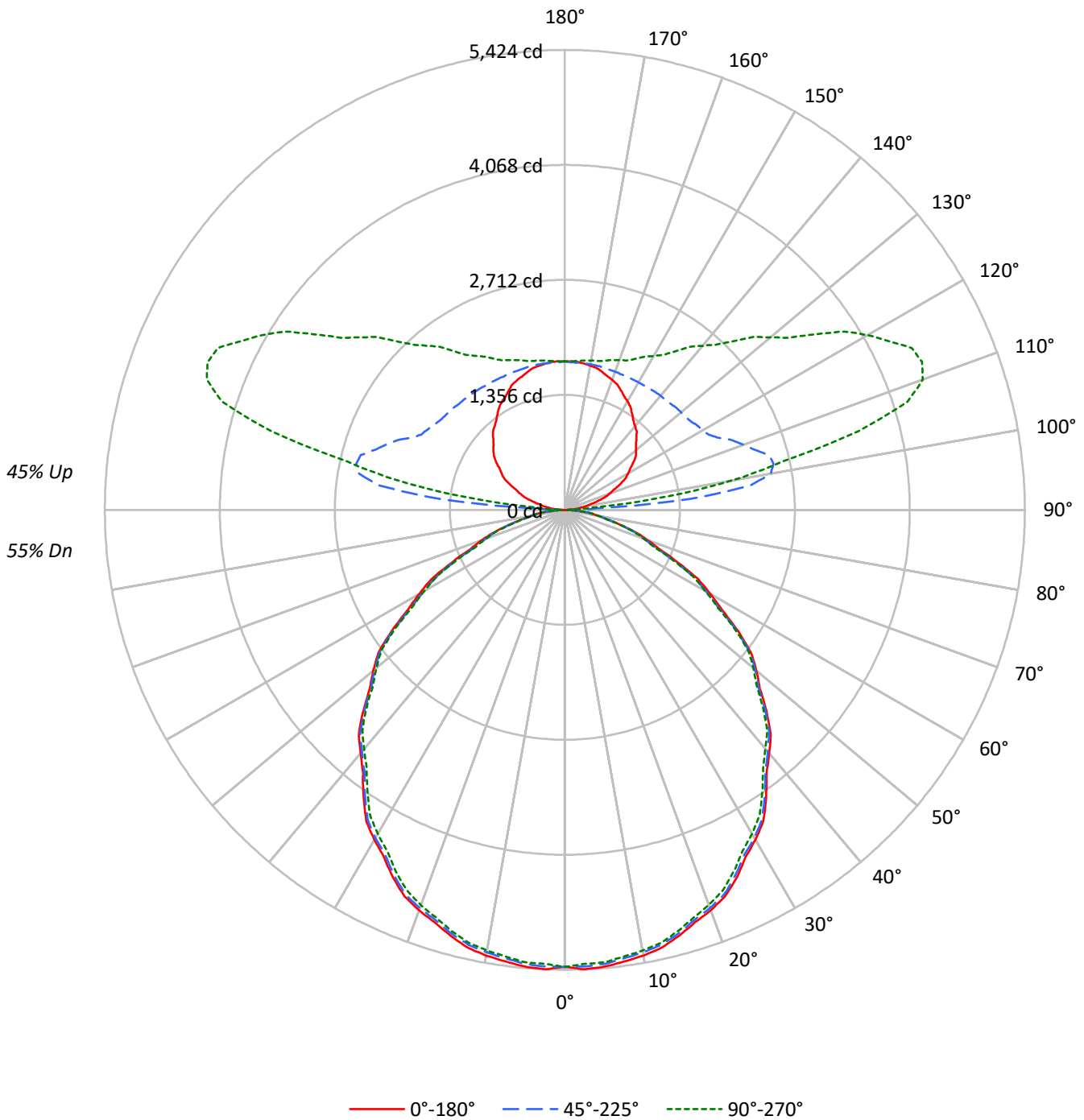
Lumens per Lamp: N/A  
Luminaire Lumens: 25171.4 lumens  
Efficiency: N/A  
Efficacy: 117.2 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 214.8  
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	0
RCR																		
0	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55
1	99	95	91	88	92	88	85	82	76	73	71	64	63	61	54	53	52	47
2	90	83	77	72	84	77	72	68	67	63	59	57	54	51	48	46	44	39
3	83	73	66	60	76	68	62	57	59	54	50	50	47	44	42	40	37	34
4	76	65	57	51	70	61	54	48	52	47	43	45	41	37	38	35	32	29
5	69	58	50	44	64	54	47	41	47	41	37	40	36	33	34	31	28	25
6	64	52	44	38	59	49	41	36	42	37	32	37	32	29	31	28	25	22
7	59	47	39	33	55	44	37	32	38	33	28	33	29	25	28	25	22	20
8	55	43	35	29	51	40	33	28	35	29	25	30	26	23	26	22	20	18
9	51	39	31	26	48	37	30	25	32	27	23	28	23	20	24	21	18	16
10	48	36	28	24	44	34	27	23	30	24	20	26	21	18	22	19	16	14

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

	0°	45°	90°
0°	16576	16576	16576
5°	16697	16595	16537
10°	16669	16551	16477
15°	16559	16469	16379
20°	16449	16356	16233
25°	16254	16141	15981
30°	15953	15869	15668
35°	15536	15429	15234
40°	15038	14944	14773
45°	14628	14525	14381
50°	14103	14012	13877
55°	13373	13196	13095
60°	12174	11826	11767
65°	10725	10278	10244
70°	9260	8878	8878
75°	7971	7858	7746
80°	7028	7111	6944
85°	5501	6002	6002



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	509.7	2.0
10°-20°	1455.2	5.8
20°-30°	2179.8	8.7
30°-40°	2556.7	10.2
40°-50°	2564.7	10.2
50°-60°	2187.9	8.7
60°-70°	1426.9	5.7
70°-80°	715.9	2.8
80°-90°	201.7	0.8
90°-100°	819.7	3.3
100°-110°	2262.9	9.0
110°-120°	2333.8	9.3
120°-130°	1875.4	7.5
130°-140°	1473.9	5.9
140°-150°	1130.4	4.5
150°-160°	812.4	3.2
160°-170°	496.8	2.0
170°-180°	167.5	0.7
0°-30°	4144.7	16.5
0°-40°	6701.4	26.6
0°-60°	11454.0	45.5
0°-90°	13798.6	54.8
90°-120°	5416.4	21.5
90°-150°	9896.1	39.3
90°-180°	11373.0	45.2
0°-180°	25171.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5390	5390	5390	5390	5390	
5°	5409	5358	5376	5357	5357	514
15°	5201	5150	5172	5153	5144	1467
25°	4790	4734	4757	4714	4710	2203
35°	4138	4096	4110	4062	4058	2585
45°	3363	3340	3340	3307	3307	2590
55°	2494	2485	2461	2447	2442	2217
65°	1474	1446	1412	1403	1408	1471
75°	671	671	661	656	652	728
85°	156	170	170	170	170	183
90°	6	11	22	25	28	14
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°	5389.8	5389.8	5389.8	5389.8	5389.8
2.5°	5423.8	5379.5	5389.8	5381.7	5359.6
5°	5408.7	5357.9	5375.6	5356.7	5356.7
7.5°	5371.9	5316.4	5334.1	5315.1	5314.2
10°	5337.8	5282.4	5300.1	5281.1	5276.4
12.5°	5288.7	5233.3	5254.7	5232.0	5231.1
15°	5200.9	5150.0	5172.5	5153.4	5144.2
17.5°	5101.7	5046.2	5073.3	5046.8	5043.1
20°	5026.1	4970.7	4997.7	4959.9	4959.9
22.5°	4935.4	4880.0	4910.8	4861.7	4861.7
25°	4789.9	4734.5	4756.8	4714.2	4709.6
27.5°	4617.0	4562.5	4585.8	4537.6	4536.7
30°	4492.3	4441.5	4468.7	4416.6	4412.0
32.5°	4356.2	4309.1	4328.8	4276.8	4272.2
35°	4138.0	4096.4	4109.7	4062.3	4057.7
37.5°	3908.4	3865.9	3881.0	3840.4	3838.5
40°	3745.9	3718.2	3722.3	3689.0	3679.8
42.5°	3594.8	3563.4	3567.4	3534.3	3532.4
45°	3363.3	3340.2	3339.7	3306.6	3306.6
47.5°	3117.7	3100.1	3095.0	3067.6	3066.7
50°	2947.6	2933.8	2928.7	2905.0	2900.4
52.5°	2770.0	2763.5	2747.3	2727.5	2726.6
55°	2494.1	2484.9	2461.1	2446.8	2442.2
57.5°	2194.7	2176.2	2149.3	2128.6	2132.3
60°	1979.3	1960.8	1922.6	1913.1	1913.1
62.5°	1771.4	1749.2	1710.9	1697.9	1705.3
65°	1473.8	1446.1	1412.4	1403.1	1407.7
67.5°	1203.6	1178.7	1142.2	1142.1	1138.4
70°	1029.8	1015.9	987.3	987.3	987.3
72.5°	874.8	868.4	847.4	847.4	843.7
75°	670.8	670.8	661.3	656.5	651.9
77.5°	502.6	504.5	499.8	494.9	486.5
80°	396.8	406.0	401.5	396.7	392.1
82.5°	298.5	307.8	307.0	298.5	297.6
85°	155.9	169.7	170.1	170.1	170.1
87.5°	42.7	58.6	64.9	65.6	69.8
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)