

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: P563307

Luminaire Tested: **SQ4-PP3-050U-075D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563307  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PP3-050U-075D-840-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

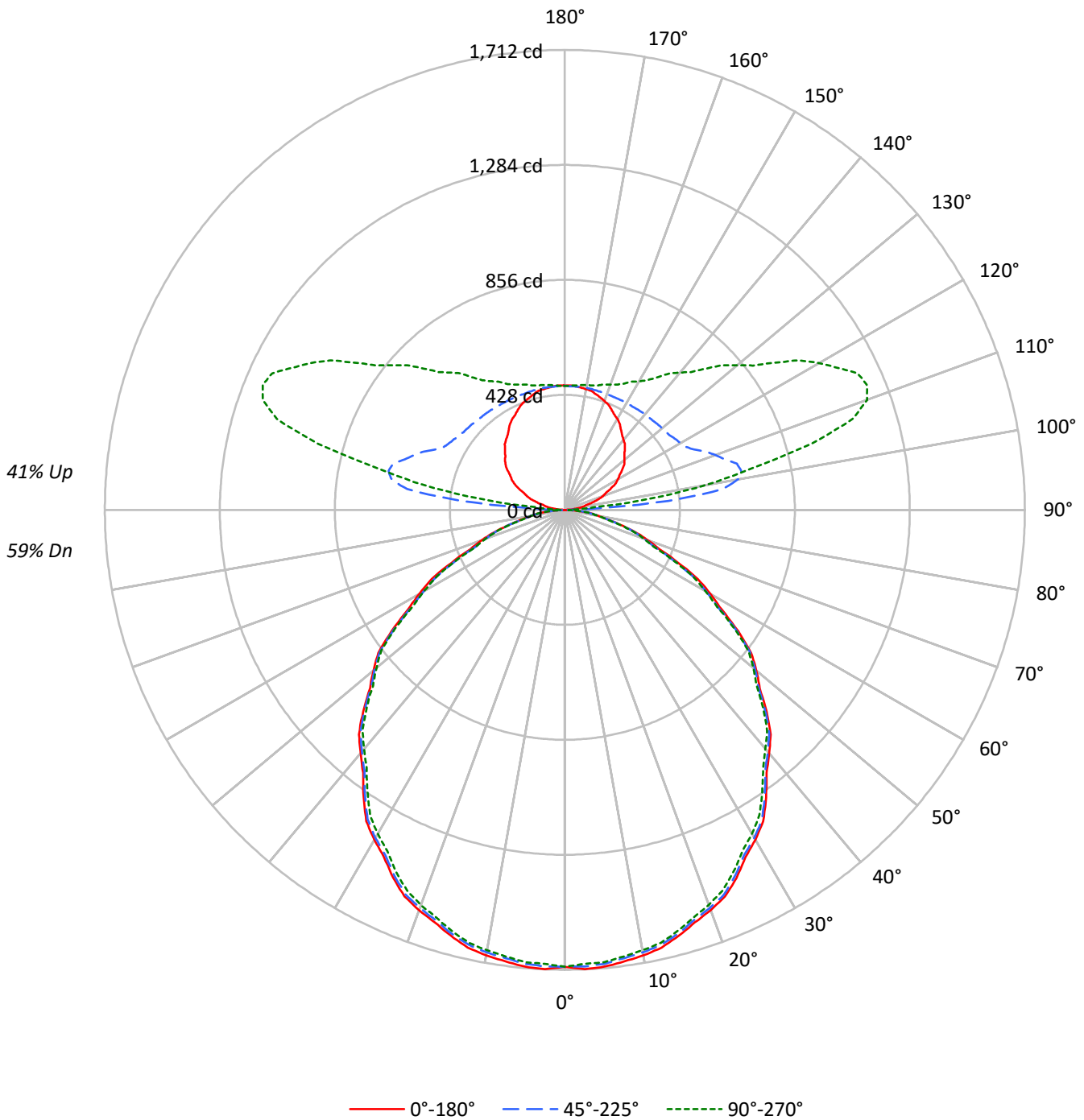
Lumens per Lamp: N/A  
Luminaire Lumens: 7372.8 lumens  
Efficiency: N/A  
Efficacy: 126.0 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 58.5  
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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64	59
1	100	96	92	88	93	90	86	83	78	75	73	67	65	64	57	56	55	50
2	91	84	78	73	85	79	73	69	69	64	61	59	56	54	51	49	47	42
3	83	74	67	61	78	69	63	58	61	56	51	53	49	46	45	42	40	36
4	76	66	58	52	71	62	54	49	54	48	44	47	43	39	40	37	34	31
5	70	58	50	44	65	55	48	42	48	43	38	42	38	34	36	33	30	27
6	65	53	44	38	60	49	42	37	44	38	33	38	33	30	33	29	27	24
7	60	47	39	34	56	45	37	32	40	34	29	35	30	26	30	26	24	21
8	56	43	35	30	52	41	34	29	36	30	26	32	27	24	28	24	21	19
9	52	39	32	27	48	37	30	26	33	27	23	29	25	21	26	22	19	17
10	48	36	29	24	45	34	28	23	31	25	21	27	22	19	24	20	17	15

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

	0°	45°	90°
0°	10461	10461	10461
5°	10538	10473	10436
10°	10520	10445	10399
15°	10450	10393	10337
20°	10381	10322	10244
25°	10258	10187	10086
30°	10068	10015	9888
35°	9805	9737	9614
40°	9491	9431	9324
45°	9232	9167	9076
50°	8900	8844	8758
55°	8439	8328	8264
60°	7684	7463	7426
65°	6769	6487	6465
70°	5843	5602	5602
75°	5031	4960	4888
80°	4435	4488	4382
85°	3472	3790	3790



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.8	2.2
10°-20°	459.2	6.2
20°-30°	687.8	9.3
30°-40°	806.8	10.9
40°-50°	809.3	11.0
50°-60°	690.4	9.4
60°-70°	450.3	6.1
70°-80°	225.9	3.1
80°-90°	64.3	0.9
90°-100°	221.9	3.0
100°-110°	602.8	8.2
110°-120°	619.7	8.4
120°-130°	495.5	6.7
130°-140°	389.3	5.3
140°-150°	298.5	4.0
150°-160°	214.7	2.9
160°-170°	131.3	1.8
170°-180°	44.2	0.6
0°-30°	1307.9	17.7
0°-40°	2114.6	28.7
0°-60°	3614.4	49.0
0°-90°	4354.8	59.1
90°-120°	1444.4	19.6
90°-150°	2627.7	35.6
90°-180°	3018.0	40.9
0°-180°	7372.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1701	1701	1701	1701	1701	
5°	1707	1691	1696	1690	1690	162
15°	1641	1625	1632	1626	1623	463
25°	1512	1494	1501	1488	1486	695
35°	1306	1293	1297	1282	1280	816
45°	1061	1054	1054	1043	1043	817
55°	787	784	777	772	771	699
65°	465	456	446	443	444	464
75°	212	212	209	207	206	230
85°	49	54	54	54	54	58
90°	2	6	10	13	13	4
95°	33	121	386	168	113	35
105°	107	167	663	1009	950	114
115°	190	231	531	1056	1202	188
125°	262	298	480	809	954	233
135°	315	350	467	659	743	244
145°	364	390	461	560	602	229
155°	412	426	458	503	517	190
165°	446	452	459	479	480	126
175°	462	464	461	467	465	44
180°	462	462	462	462	462	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1700.8	1700.8	1700.8	1700.8	1700.8
2.5°	1711.5	1697.5	1700.8	1698.2	1691.2
5°	1706.7	1690.7	1696.3	1690.3	1690.3
7.5°	1695.1	1677.6	1683.2	1677.2	1676.9
10°	1684.4	1666.9	1672.4	1666.5	1665.0
12.5°	1668.9	1651.4	1658.1	1651.0	1650.7
15°	1641.1	1625.1	1632.2	1626.2	1623.3
17.5°	1609.8	1592.4	1600.9	1592.5	1591.4
20°	1586.0	1568.5	1577.0	1565.1	1565.1
22.5°	1557.4	1539.9	1549.6	1534.1	1534.1
25°	1511.5	1494.0	1501.0	1487.6	1486.1
27.5°	1456.9	1439.7	1447.1	1431.9	1431.6
30°	1417.6	1401.5	1410.1	1393.7	1392.2
32.5°	1374.6	1359.8	1366.0	1349.6	1348.1
35°	1305.8	1292.6	1296.8	1281.9	1280.4
37.5°	1233.3	1219.9	1224.7	1211.8	1211.3
40°	1182.0	1173.3	1174.6	1164.1	1161.2
42.5°	1134.3	1124.4	1125.7	1115.2	1114.7
45°	1061.3	1054.0	1053.8	1043.4	1043.4
47.5°	983.8	978.3	976.6	968.0	967.7
50°	930.1	925.8	924.2	916.7	915.2
52.5°	874.1	872.0	866.9	860.7	860.4
55°	787.0	784.1	776.6	772.1	770.6
57.5°	692.5	686.7	678.2	671.7	672.9
60°	624.6	618.7	606.7	603.7	603.7
62.5°	559.0	552.0	539.9	535.8	538.1
65°	465.1	456.3	445.7	442.7	444.2
67.5°	379.8	371.9	360.4	360.4	359.2
70°	324.9	320.6	311.5	311.5	311.5
72.5°	276.1	274.0	267.4	267.4	266.2
75°	211.7	211.7	208.7	207.2	205.7
77.5°	158.6	159.2	157.7	156.2	153.5
80°	125.2	128.1	126.7	125.2	123.7
82.5°	94.2	97.1	96.9	94.2	93.9
85°	49.2	53.6	53.7	53.7	53.7
87.5°	13.4	19.0	21.2	21.8	22.9
90°	1.5	5.8	10.4	13.4	13.4
92.5°	13.4	60.8	105.5	45.3	38.3
95°	32.7	121.3	386.4	168.2	113.0
97.5°	54.1	134.0	592.4	460.9	323.7
100°	68.4	142.5	655.4	664.4	536.5
102.5°	82.6	150.9	672.1	821.7	708.9
105°	107.0	166.6	662.9	1009.3	949.7
107.5°	132.3	184.9	624.5	1106.1	1122.7
110°	150.1	198.1	596.0	1125.2	1196.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	165.6	211.2	567.4	1109.4	1216.6
115°	190.2	230.9	530.6	1055.6	1202.4
117.5°	213.4	252.4	507.1	979.3	1144.7
120°	228.9	266.7	496.4	928.2	1092.4
122.5°	242.0	279.7	489.3	876.9	1035.3
125°	261.6	297.9	480.1	808.8	954.2
127.5°	279.1	315.2	475.0	757.2	881.9
130°	289.8	324.7	472.6	724.8	836.7
132.5°	300.5	335.4	470.2	697.2	796.3
135°	315.1	350.0	466.7	658.8	743.1
137.5°	330.8	362.5	464.9	624.9	695.9
140°	340.3	370.9	463.7	603.4	667.3
142.5°	349.9	378.0	462.5	586.5	640.0
145°	364.1	390.3	460.7	559.8	601.9
147.5°	380.2	402.6	459.2	538.8	571.9
150°	390.9	409.8	459.2	526.7	552.9
152.5°	399.2	415.8	458.1	515.9	537.4
155°	411.7	426.2	457.8	502.7	517.2
157.5°	423.9	435.2	457.8	493.7	504.7
160°	431.0	441.2	457.8	487.7	496.4
162.5°	438.1	446.0	458.9	482.9	489.3
165°	445.9	451.7	459.2	478.6	480.1
167.5°	453.9	456.8	460.7	473.5	474.7
170°	456.3	459.2	460.7	471.1	471.1
172.5°	458.6	460.4	460.7	468.8	468.8
175°	462.2	463.7	460.7	466.6	465.2
177.5°	463.4	463.4	459.8	464.5	462.2
180°	462.2	462.2	462.2	462.2	462.2

(END OF REPORT)