

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: P563403

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

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563403  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PP3-075U-075D-840-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

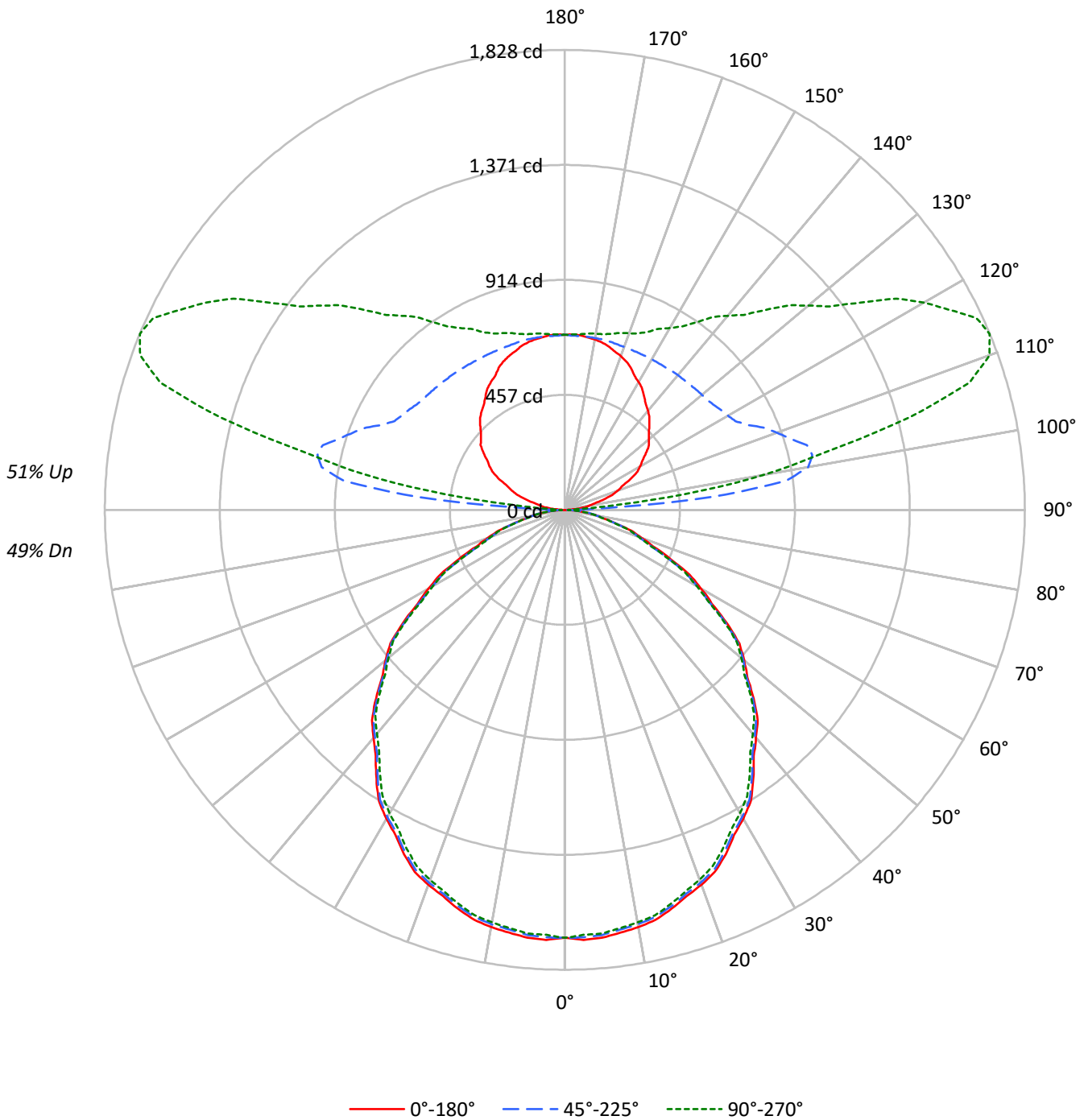
Lumens per Lamp: N/A  
Luminaire Lumens: 8890.7 lumens  
Efficiency: N/A  
Efficacy: 130.7 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 68  
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	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	71	68	61	59	57	49	48	47	42
2	89	82	76	71	82	76	70	66	64	60	57	53	51	48	43	42	40	35
3	81	72	65	59	75	67	60	55	57	52	48	47	44	41	39	36	34	30
4	75	64	56	50	68	59	52	47	50	45	41	42	38	35	35	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	23	20	18
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°	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	1.8
10°-20°	459.2	5.2
20°-30°	687.8	7.7
30°-40°	806.8	9.1
40°-50°	809.3	9.1
50°-60°	690.4	7.8
60°-70°	450.3	5.1
70°-80°	225.9	2.5
80°-90°	64.3	0.7
90°-100°	328.4	3.7
100°-110°	903.5	10.2
110°-120°	932.6	10.5
120°-130°	747.2	8.4
130°-140°	586.8	6.6
140°-150°	449.7	5.1
150°-160°	323.3	3.6
160°-170°	197.7	2.2
170°-180°	66.6	0.7
0°-30°	1307.9	14.7
0°-40°	2114.6	23.8
0°-60°	3614.4	40.7
0°-90°	4354.8	49.0
90°-120°	2164.4	24.3
90°-150°	3948.2	44.4
90°-180°	4536.0	51.0
0°-180°	8890.7	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	5
95°	49	179	581	248	158	52
105°	162	248	996	1516	1415	170
115°	286	348	798	1590	1804	282
125°	394	449	724	1226	1436	352
135°	476	528	704	991	1121	367
145°	550	587	693	844	910	345
155°	622	642	689	759	781	286
165°	673	681	692	720	724	190
175°	696	698	693	702	701	66
180°	696	696	696	696	696	

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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	18.9	21.2	21.8	22.9
90°	1.5	5.8	10.4	13.3	13.3
92.5°	20.4	87.4	151.4	58.1	47.7
95°	48.9	179.3	580.7	248.3	158.5
97.5°	79.7	198.8	886.2	682.8	481.8
100°	102.2	210.9	982.2	991.4	808.8
102.5°	123.5	225.2	1007.1	1229.9	1062.5
105°	161.5	248.4	995.5	1516.1	1414.7
107.5°	197.6	277.0	938.9	1656.3	1686.4
110°	223.7	296.1	896.3	1691.2	1795.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	247.4	317.5	853.6	1668.7	1827.5
115°	285.9	348.2	798.5	1590.0	1804.4
117.5°	322.7	380.0	763.5	1479.5	1722.0
120°	345.2	400.2	748.1	1396.7	1647.3
122.5°	365.3	420.4	737.4	1324.2	1562.0
125°	394.1	449.1	724.4	1225.5	1435.5
127.5°	421.3	473.7	715.8	1143.1	1327.3
130°	435.5	489.1	711.1	1094.1	1262.2
132.5°	452.1	505.7	707.5	1051.1	1202.9
135°	475.5	527.7	703.7	991.1	1121.4
137.5°	497.5	545.8	700.4	942.5	1050.0
140°	514.0	559.0	699.2	910.3	1007.4
142.5°	528.3	569.7	696.9	881.5	964.7
145°	549.6	587.3	693.3	844.4	909.6
147.5°	572.4	604.9	691.5	811.5	863.7
150°	586.6	615.6	690.3	793.5	834.0
152.5°	599.7	626.3	689.2	777.9	811.5
155°	622.2	642.5	688.9	759.0	780.7
157.5°	638.5	655.0	688.9	743.4	758.5
160°	650.3	663.4	688.9	735.0	746.6
162.5°	659.8	670.5	690.0	727.9	737.1
165°	672.6	681.2	691.8	720.1	724.4
167.5°	681.4	688.1	693.3	713.5	714.6
170°	687.4	691.7	693.3	711.1	711.1
172.5°	692.1	694.1	693.3	707.5	706.3
175°	696.3	697.7	693.3	702.2	700.7
177.5°	697.4	697.4	692.7	699.8	697.4
180°	696.3	696.3	696.3	696.3	696.3

(END OF REPORT)