

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: P563371

Luminaire Tested: **SQ4-PP3-075U-050D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563371  
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-050D-830-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

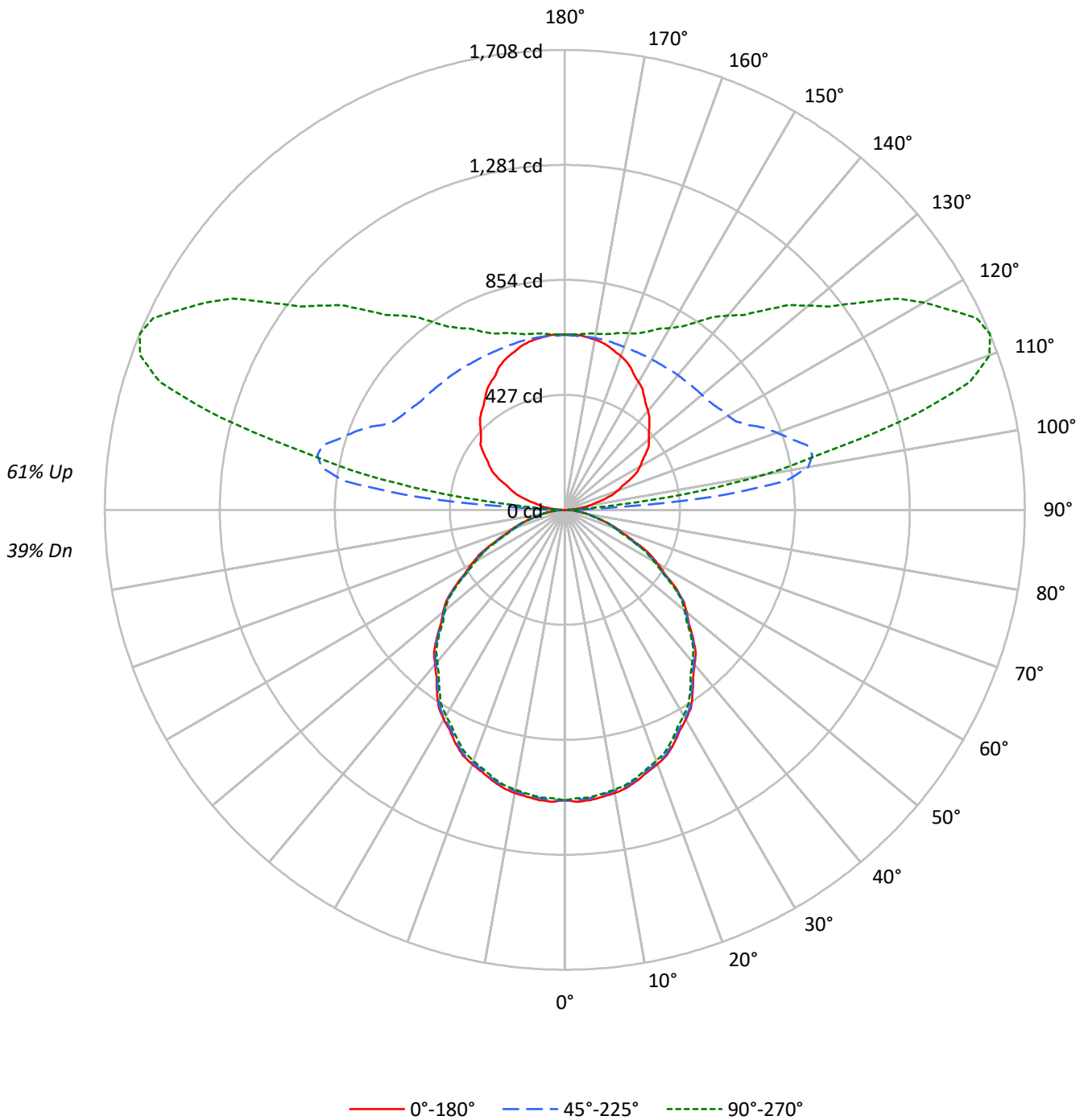
Lumens per Lamp: N/A  
Luminaire Lumens: 7000.3 lumens  
Efficiency: N/A  
Efficacy: 128.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 54.3  
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



TEST NUMBER: P563371  
CATALOG NUMBER: SQ4-PP3-075U-050D-830-1D-UNV-STD-W-6

### Luminous Intensity Polar Plot





TEST NUMBER: P563371

CATALOG NUMBER: SQ4-PP3-075U-050D-830-1D-UNV-STD-W-6

**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	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	96	91	88	84	87	83	80	77	68	66	64	54	53	51	41	40	40	34
2	87	80	74	69	79	73	68	64	60	56	53	48	45	43	36	35	33	28
3	80	70	63	58	72	64	58	53	53	48	45	42	39	37	32	30	29	24
4	73	62	55	49	66	57	50	45	47	42	38	38	34	31	29	27	25	21
5	67	55	47	42	60	51	44	39	42	37	33	34	30	27	26	24	22	18
6	61	50	42	36	56	46	39	34	38	33	29	30	27	24	24	21	19	16
7	57	45	37	32	51	41	34	29	34	29	25	28	24	21	22	19	17	14
8	53	41	33	28	48	37	31	26	31	26	22	25	21	19	20	17	15	13
9	49	37	30	25	44	34	28	23	28	23	20	23	19	17	18	16	14	11
10	46	34	27	22	42	31	25	21	26	21	18	21	18	15	17	14	12	10

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

	0°	45°	90°
0°	6632	6632	6632
5°	6681	6640	6617
10°	6670	6623	6594
15°	6626	6590	6554
20°	6582	6545	6495
25°	6504	6459	6394
30°	6384	6349	6269
35°	6216	6174	6096
40°	6018	5979	5911
45°	5853	5812	5755
50°	5643	5607	5553
55°	5351	5280	5240
60°	4871	4731	4709
65°	4292	4113	4098
70°	3705	3552	3552
75°	3189	3144	3099
80°	2812	2844	2777
85°	2202	2399	2399



TEST NUMBER: P563371

CATALOG NUMBER: SQ4-PP3-075U-050D-830-1D-UNV-STD-W-6

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.0	1.5
10°-20°	291.2	4.2
20°-30°	436.1	6.2
30°-40°	511.5	7.3
40°-50°	513.1	7.3
50°-60°	437.7	6.3
60°-70°	285.5	4.1
70°-80°	143.2	2.0
80°-90°	41.3	0.6
90°-100°	306.9	4.4
100°-110°	844.3	12.1
110°-120°	871.5	12.4
120°-130°	698.2	10.0
130°-140°	548.4	7.8
140°-150°	420.3	6.0
150°-160°	302.2	4.3
160°-170°	184.8	2.6
170°-180°	62.3	0.9
0°-30°	829.2	11.8
0°-40°	1340.7	19.2
0°-60°	2291.6	32.7
0°-90°	2761.6	39.4
90°-120°	2022.6	28.9
90°-150°	3689.5	52.7
90°-180°	4239.0	60.6
0°-180°	7000.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1078	1078	1078	1078	1078	
5°	1082	1072	1076	1072	1072	103
15°	1040	1030	1035	1031	1029	294
25°	958	947	952	943	942	441
35°	828	820	822	813	812	517
45°	673	668	668	662	662	518
55°	499	497	492	490	489	443
65°	295	289	283	281	282	294
75°	134	134	132	131	130	146
85°	31	34	34	34	34	37
90°	1	5	10	12	12	4
95°	46	168	543	232	148	48
105°	151	232	930	1417	1322	159
115°	267	325	746	1486	1686	264
125°	368	420	677	1145	1341	328
135°	444	493	658	926	1048	343
145°	514	549	648	789	850	322
155°	581	600	644	709	730	267
165°	628	637	646	673	677	177
175°	651	652	648	656	655	62
180°	651	651	651	651	651	

TEST NUMBER: P563371

CATALOG NUMBER: SQ4-PP3-075U-050D-830-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1078.3	1078.3	1078.3	1078.3	1078.3
2.5°	1085.1	1076.3	1078.3	1076.7	1072.3
5°	1082.1	1072.0	1075.5	1071.7	1071.7
7.5°	1074.7	1063.7	1067.2	1063.4	1063.2
10°	1067.9	1056.9	1060.4	1056.6	1055.7
12.5°	1058.1	1047.0	1051.3	1046.8	1046.6
15°	1040.5	1030.4	1034.9	1031.0	1029.2
17.5°	1020.7	1009.6	1015.0	1009.7	1009.0
20°	1005.6	994.5	999.9	992.3	992.3
22.5°	987.4	976.3	982.5	972.7	972.7
25°	958.3	947.2	951.7	943.2	942.2
27.5°	923.7	912.8	917.5	907.8	907.7
30°	898.8	888.6	894.0	883.6	882.7
32.5°	871.6	862.1	866.1	855.7	854.7
35°	827.9	819.6	822.2	812.8	811.8
37.5°	782.0	773.5	776.5	768.3	768.0
40°	749.5	743.9	744.7	738.1	736.2
42.5°	719.2	712.9	713.7	707.1	706.7
45°	672.9	668.3	668.2	661.6	661.6
47.5°	623.8	620.2	619.2	613.7	613.5
50°	589.7	587.0	586.0	581.2	580.3
52.5°	554.2	552.9	549.7	545.7	545.5
55°	499.0	497.2	492.4	489.5	488.6
57.5°	439.1	435.4	430.0	425.9	426.6
60°	396.0	392.3	384.6	382.8	382.8
62.5°	354.4	350.0	342.3	339.7	341.2
65°	294.9	289.3	282.6	280.7	281.6
67.5°	240.8	235.8	228.5	228.5	227.8
70°	206.0	203.3	197.5	197.5	197.5
72.5°	175.0	173.7	169.5	169.5	168.8
75°	134.2	134.2	132.3	131.3	130.4
77.5°	100.6	100.9	100.0	99.0	97.3
80°	79.4	81.2	80.3	79.4	78.4
82.5°	59.7	61.6	61.4	59.7	59.5
85°	31.2	34.0	34.0	34.0	34.0
87.5°	8.6	12.4	14.0	14.6	15.3
90°	1.4	5.4	9.7	12.5	12.5
92.5°	19.1	81.6	141.5	54.3	44.6
95°	45.7	167.5	542.7	232.0	148.1
97.5°	74.5	185.7	828.1	638.1	450.2
100°	95.5	197.0	917.8	926.4	755.9
102.5°	115.5	210.5	941.1	1149.3	992.9
105°	150.9	232.1	930.3	1416.8	1322.1
107.5°	184.7	258.9	877.4	1547.8	1576.0
110°	209.0	276.7	837.5	1580.4	1677.8



TEST NUMBER: P563371

CATALOG NUMBER: SQ4-PP3-075U-050D-830-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	231.2	296.7	797.7	1559.4	1707.7
115°	267.2	325.4	746.2	1485.8	1686.1
117.5°	301.5	355.1	713.5	1382.6	1609.2
120°	322.6	374.0	699.1	1305.2	1539.4
122.5°	341.4	392.8	689.1	1237.4	1459.7
125°	368.2	419.7	677.0	1145.2	1341.4
127.5°	393.7	442.7	668.9	1068.2	1240.4
130°	407.0	457.1	664.5	1022.5	1179.5
132.5°	422.5	472.6	661.2	982.2	1124.1
135°	444.4	493.1	657.6	926.1	1048.0
137.5°	464.9	510.1	654.5	880.8	981.2
140°	480.4	522.3	653.4	850.7	941.4
142.5°	493.7	532.4	651.2	823.8	901.5
145°	513.6	548.8	647.9	789.1	850.0
147.5°	534.9	565.2	646.2	758.4	807.1
150°	548.2	575.3	645.1	741.5	779.4
152.5°	560.4	585.3	644.0	726.9	758.4
155°	581.4	600.4	643.7	709.3	729.6
157.5°	596.7	612.1	643.7	694.7	708.8
160°	607.7	619.9	643.7	686.9	697.7
162.5°	616.6	626.6	644.8	680.2	688.9
165°	628.5	636.6	646.5	672.9	677.0
167.5°	636.8	643.0	647.9	666.7	667.8
170°	642.3	646.4	647.9	664.5	664.5
172.5°	646.8	648.7	647.9	661.1	660.1
175°	650.6	652.0	647.9	656.2	654.8
177.5°	651.8	651.8	647.3	653.9	651.8
180°	650.6	650.6	650.6	650.6	650.6

(END OF REPORT)