

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: P562531

Luminaire Tested: **SQ4-PC3-025U-075D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562531  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2106-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PC3-025U-075D-830-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

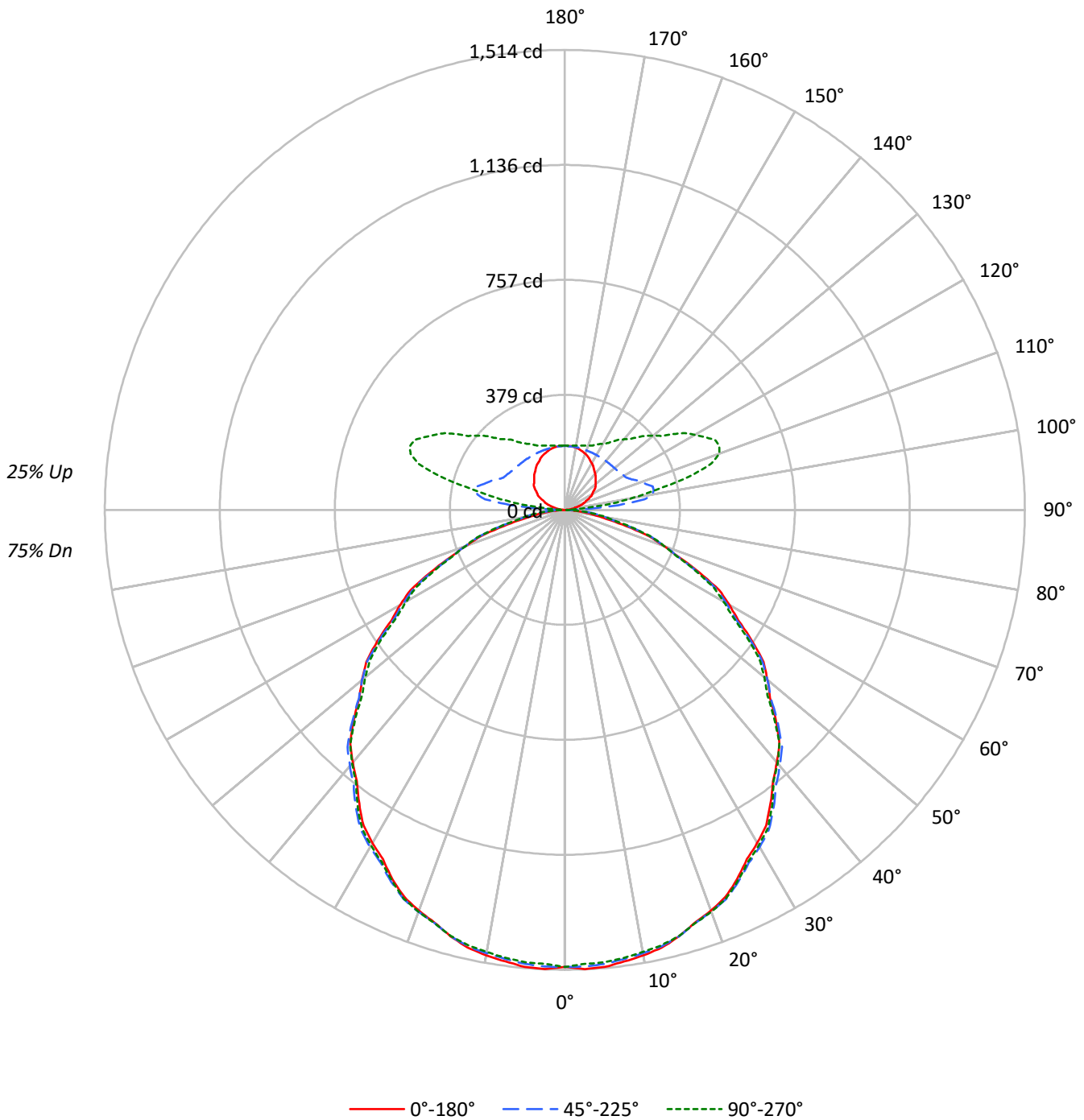
Lumens per Lamp: N/A  
Luminaire Lumens: 5475.4 lumens  
Efficiency: N/A  
Efficacy: 112.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 48.6  
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	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79	75
1	103	99	95	91	98	94	91	88	86	83	80	78	75	73	70	69	67	63
2	94	87	80	75	89	83	77	72	75	71	67	68	65	61	62	59	57	53
3	86	76	68	62	81	73	66	60	66	61	56	60	56	52	55	51	48	45
4	79	67	59	53	75	64	57	51	59	53	48	54	49	45	49	45	41	38
5	72	60	52	45	69	58	50	44	53	46	41	48	43	39	44	40	36	33
6	67	54	46	39	63	52	44	38	48	41	36	44	38	34	40	35	32	29
7	62	49	41	35	59	47	39	34	43	37	32	40	34	30	36	32	28	26
8	57	45	36	31	55	43	35	30	39	33	28	36	31	27	33	29	25	23
9	54	41	33	28	51	39	32	27	36	30	26	33	28	24	31	26	23	21
10	50	38	30	25	48	36	29	24	33	27	23	31	26	22	29	24	21	19

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

	0°	45°	90°
0°	9255	9255	9255
5°	9325	9265	9231
10°	9302	9259	9233
15°	9254	9254	9245
20°	9193	9220	9220
25°	9106	9172	9144
30°	8995	9104	9064
35°	8861	8997	8935
40°	8715	8838	8748
45°	8557	8617	8484
50°	8333	8333	8200
55°	8068	7963	7844
60°	7679	7524	7404
65°	7097	6955	6894
70°	6213	6264	6239
75°	5000	5530	5563
80°	3553	4690	4739
85°	2167	3931	3931



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.4	2.6
10°-20°	408.7	7.5
20°-30°	618.9	11.3
30°-40°	741.9	13.6
40°-50°	756.5	13.8
50°-60°	660.4	12.1
60°-70°	472.8	8.6
70°-80°	243.5	4.4
80°-90°	62.7	1.1
90°-100°	102.8	1.9
100°-110°	270.3	4.9
110°-120°	280.3	5.1
120°-130°	224.9	4.1
130°-140°	176.4	3.2
140°-150°	135.4	2.5
150°-160°	97.5	1.8
160°-170°	59.7	1.1
170°-180°	20.2	0.4
0°-30°	1169.9	21.4
0°-40°	1911.9	34.9
0°-60°	3328.8	60.8
0°-90°	4107.8	75.0
90°-120°	653.5	11.9
90°-150°	1190.2	21.7
90°-180°	1368.0	25.0
0°-180°	5475.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1505	1505	1505	1505	1505	
5°	1510	1495	1501	1496	1495	143
15°	1453	1441	1453	1453	1452	410
25°	1342	1332	1352	1347	1347	617
35°	1180	1177	1198	1190	1190	738
45°	984	981	991	978	975	757
55°	752	743	743	732	732	671
65°	488	477	478	474	474	482
75°	210	220	233	234	234	227
85°	31	47	56	57	56	42
90°	1	4	11	5	5	2
95°	14	53	177	91	62	15
105°	49	74	299	454	423	52
115°	87	105	239	478	545	85
125°	120	135	218	368	434	107
135°	143	158	211	297	337	111
145°	166	177	208	253	273	104
155°	188	193	208	229	235	86
165°	203	206	208	216	219	57
175°	211	211	210	212	212	20
180°	211	211	211	211	211	

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CATALOG NUMBER: SQ4-PC3-025U-075D-830-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1504.7	1504.7	1504.7	1504.7	1504.7
2.5°	1513.7	1500.6	1504.7	1501.3	1495.8
5°	1510.3	1495.3	1500.6	1496.3	1495.0
7.5°	1499.4	1484.5	1491.4	1488.5	1487.2
10°	1489.4	1474.4	1482.4	1479.6	1478.3
12.5°	1476.0	1462.1	1471.3	1468.5	1468.2
15°	1453.2	1440.9	1453.2	1453.2	1451.8
17.5°	1424.5	1413.3	1426.4	1427.3	1426.4
20°	1404.4	1392.2	1408.6	1407.2	1408.6
22.5°	1379.9	1369.8	1387.4	1383.8	1385.2
25°	1341.7	1332.2	1351.5	1347.3	1347.3
27.5°	1296.6	1289.8	1310.8	1306.3	1306.3
30°	1266.5	1259.7	1281.8	1276.2	1276.2
32.5°	1233.0	1228.4	1249.5	1242.8	1242.8
35°	1180.1	1177.4	1198.2	1189.9	1189.9
37.5°	1125.5	1123.0	1141.9	1131.8	1128.6
40°	1085.4	1084.0	1100.7	1089.5	1089.5
42.5°	1045.2	1043.9	1058.3	1045.0	1045.0
45°	983.7	980.9	990.6	978.0	975.3
47.5°	916.5	913.8	919.8	906.2	904.8
50°	870.8	868.1	870.8	858.2	856.9
52.5°	824.0	819.1	819.5	807.0	806.7
55°	752.4	742.8	742.6	731.5	731.5
57.5°	676.6	664.0	665.1	655.6	654.3
60°	624.2	610.6	611.6	603.3	601.9
62.5°	572.9	557.1	560.4	550.9	550.6
65°	487.6	476.7	477.9	473.7	473.7
67.5°	405.7	395.6	402.9	399.6	399.3
70°	345.5	338.7	348.3	348.3	346.9
72.5°	289.8	289.5	301.5	301.5	302.3
75°	210.4	219.9	232.7	234.1	234.1
77.5°	140.4	157.3	171.4	171.9	171.7
80°	100.3	119.4	132.4	135.1	133.8
82.5°	68.0	88.2	98.9	101.7	100.3
85°	30.7	47.0	55.7	57.1	55.7
87.5°	9.2	19.5	24.5	23.3	21.1
90°	1.4	4.0	10.8	5.4	5.4
92.5°	5.7	27.4	60.6	26.8	17.3
95°	13.5	53.2	177.2	91.3	62.2
97.5°	23.5	58.4	265.1	210.8	155.3
100°	31.1	62.8	292.1	296.1	229.9
102.5°	37.6	67.2	299.7	368.8	312.2
105°	48.7	73.8	298.9	453.8	423.3
107.5°	60.1	83.3	281.9	497.9	505.3
110°	67.6	88.8	267.8	509.3	541.0



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CATALOG NUMBER: SQ4-PC3-025U-075D-830-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	75.2	95.3	254.8	502.1	550.8
115°	86.6	105.1	239.4	477.6	545.1
117.5°	97.7	114.6	228.8	443.7	518.6
120°	104.1	120.0	224.5	420.9	493.7
122.5°	110.6	126.5	221.3	398.2	469.9
125°	120.4	134.9	217.8	368.0	434.2
127.5°	128.2	143.0	214.8	343.7	399.5
130°	132.5	148.4	213.7	328.5	380.1
132.5°	136.9	152.7	212.6	315.4	361.7
135°	143.4	157.9	211.0	297.1	336.8
137.5°	150.1	164.4	210.7	283.4	316.0
140°	155.5	168.8	209.6	272.6	303.0
142.5°	159.9	172.0	209.6	264.9	291.1
145°	166.4	176.9	208.3	253.4	273.2
147.5°	172.9	183.2	208.3	243.8	260.2
150°	177.2	186.4	208.3	238.3	251.6
152.5°	181.5	188.7	208.3	233.9	244.0
155°	188.0	193.3	208.3	228.7	235.3
157.5°	192.9	197.9	208.3	224.1	228.8
160°	196.1	200.1	208.3	221.9	224.5
162.5°	199.4	202.3	208.3	219.7	222.4
165°	202.9	205.5	208.3	216.5	219.1
167.5°	206.1	207.4	209.6	215.1	216.1
170°	208.3	209.6	209.6	215.1	215.1
172.5°	209.4	209.6	209.6	213.9	212.9
175°	211.0	211.0	209.6	212.3	212.3
177.5°	211.0	211.0	209.9	212.1	211.0
180°	211.0	211.0	211.0	211.0	211.0

(END OF REPORT)