

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: P562915

Luminaire Tested: **SQ4-PC3-100U-075D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562915  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PC3-100U-075D-830-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

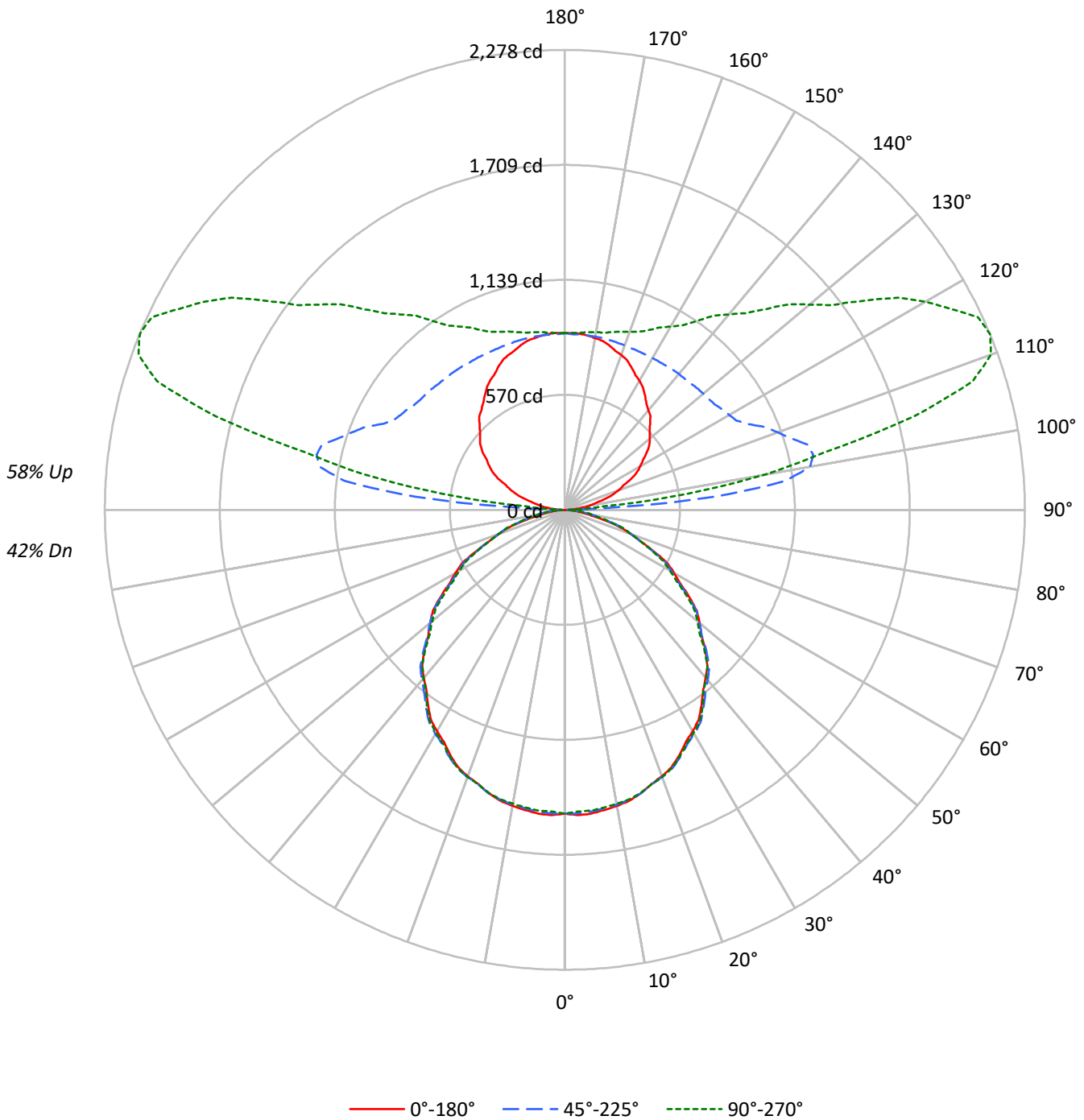
Lumens per Lamp: N/A  
Luminaire Lumens: 9795.0 lumens  
Efficiency: N/A  
Efficacy: 125.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 78  
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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	42
1	96	92	88	85	87	84	81	78	69	67	65	56	54	53	43	42	41	35
2	87	80	74	69	80	73	68	64	61	57	54	49	46	44	38	36	35	30
3	80	70	63	57	72	64	58	53	53	49	45	43	40	37	34	31	30	25
4	73	62	54	48	66	57	50	45	47	42	38	38	35	32	30	27	25	22
5	67	55	47	41	61	51	44	39	42	37	33	34	30	27	27	24	22	19
6	61	50	42	36	56	46	39	33	38	33	29	31	27	24	24	22	19	16
7	57	45	37	31	52	41	34	29	34	29	25	28	24	21	22	19	17	14
8	53	40	33	28	48	37	31	26	31	26	22	26	22	19	20	18	15	13
9	49	37	29	24	45	34	27	23	29	23	20	24	20	17	19	16	14	12
10	46	34	27	22	42	31	25	20	26	21	18	22	18	15	17	15	13	11

**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	1.5
10°-20°	408.7	4.2
20°-30°	618.9	6.3
30°-40°	741.9	7.6
40°-50°	756.5	7.7
50°-60°	660.4	6.7
60°-70°	472.8	4.8
70°-80°	243.5	2.5
80°-90°	63.4	0.6
90°-100°	409.9	4.2
100°-110°	1131.5	11.6
110°-120°	1166.9	11.9
120°-130°	937.7	9.6
130°-140°	736.9	7.5
140°-150°	565.2	5.8
150°-160°	406.2	4.1
160°-170°	248.4	2.5
170°-180°	83.8	0.9
0°-30°	1169.9	11.9
0°-40°	1911.9	19.5
0°-60°	3328.8	34.0
0°-90°	4108.5	41.9
90°-120°	2708.2	27.6
90°-150°	4948.1	50.5
90°-180°	5686.0	58.1
0°-180°	9795.0	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°	3	6	11	13	14	6
95°	60	222	744	306	199	64
105°	202	311	1245	1900	1790	215
115°	361	437	1003	1985	2257	355
125°	496	564	909	1538	1805	441
135°	596	661	884	1246	1404	462
145°	692	740	872	1060	1141	433
155°	780	806	865	952	982	359
165°	844	855	870	903	910	238
175°	875	876	871	884	881	83
180°	875	875	875	875	875	

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**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°	9.5	19.8	24.5	24.8	22.9
90°	2.8	5.5	11.2	12.6	14.0
92.5°	25.2	104.6	187.1	68.3	53.2
95°	60.2	221.8	743.6	305.6	198.8
97.5°	99.7	248.4	1101.5	848.0	614.2
100°	128.8	264.4	1233.7	1242.4	1009.6
102.5°	156.8	282.5	1259.4	1535.0	1314.3
105°	201.6	311.2	1244.9	1900.5	1789.6
107.5°	249.3	346.7	1175.4	2076.7	2117.2
110°	282.9	370.5	1121.6	2114.6	2246.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	313.1	397.4	1071.2	2084.7	2278.5
115°	361.3	436.6	1002.6	1984.8	2257.3
117.5°	403.3	478.3	957.5	1844.2	2154.2
120°	431.3	505.2	939.6	1749.1	2061.2
122.5°	458.2	528.8	925.0	1660.2	1955.9
125°	495.7	564.2	908.8	1538.0	1805.0
127.5°	527.6	596.1	899.3	1434.6	1664.9
130°	548.9	617.4	894.8	1371.4	1580.9
132.5°	569.1	634.2	890.3	1318.3	1508.1
135°	596.5	660.9	883.6	1245.7	1404.5
137.5°	627.3	685.9	880.2	1184.6	1320.2
140°	644.1	701.6	878.0	1143.9	1263.1
142.5°	663.2	716.3	875.7	1107.8	1212.6
145°	691.7	739.7	872.4	1060.5	1141.2
147.5°	719.2	761.1	869.3	1020.6	1083.3
150°	739.4	773.6	868.2	996.8	1047.4
152.5°	755.0	787.1	867.1	976.4	1018.3
155°	780.0	806.0	865.4	951.5	981.6
157.5°	802.9	822.9	865.7	933.3	953.9
160°	816.4	834.2	866.8	923.1	938.2
162.5°	827.6	843.2	867.9	914.1	925.9
165°	844.4	855.3	869.6	903.3	910.2
167.5°	857.3	863.8	871.0	896.8	899.0
170°	864.0	869.5	871.0	893.4	893.4
172.5°	869.6	872.9	871.0	888.9	887.8
175°	875.2	876.5	871.0	883.5	880.8
177.5°	877.4	876.3	870.7	878.5	876.3
180°	875.2	875.2	875.2	875.2	875.2

(END OF REPORT)