

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: P562627

Luminaire Tested: **SQ4-PC3-050U-075D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562627  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PC3-050U-075D-830-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

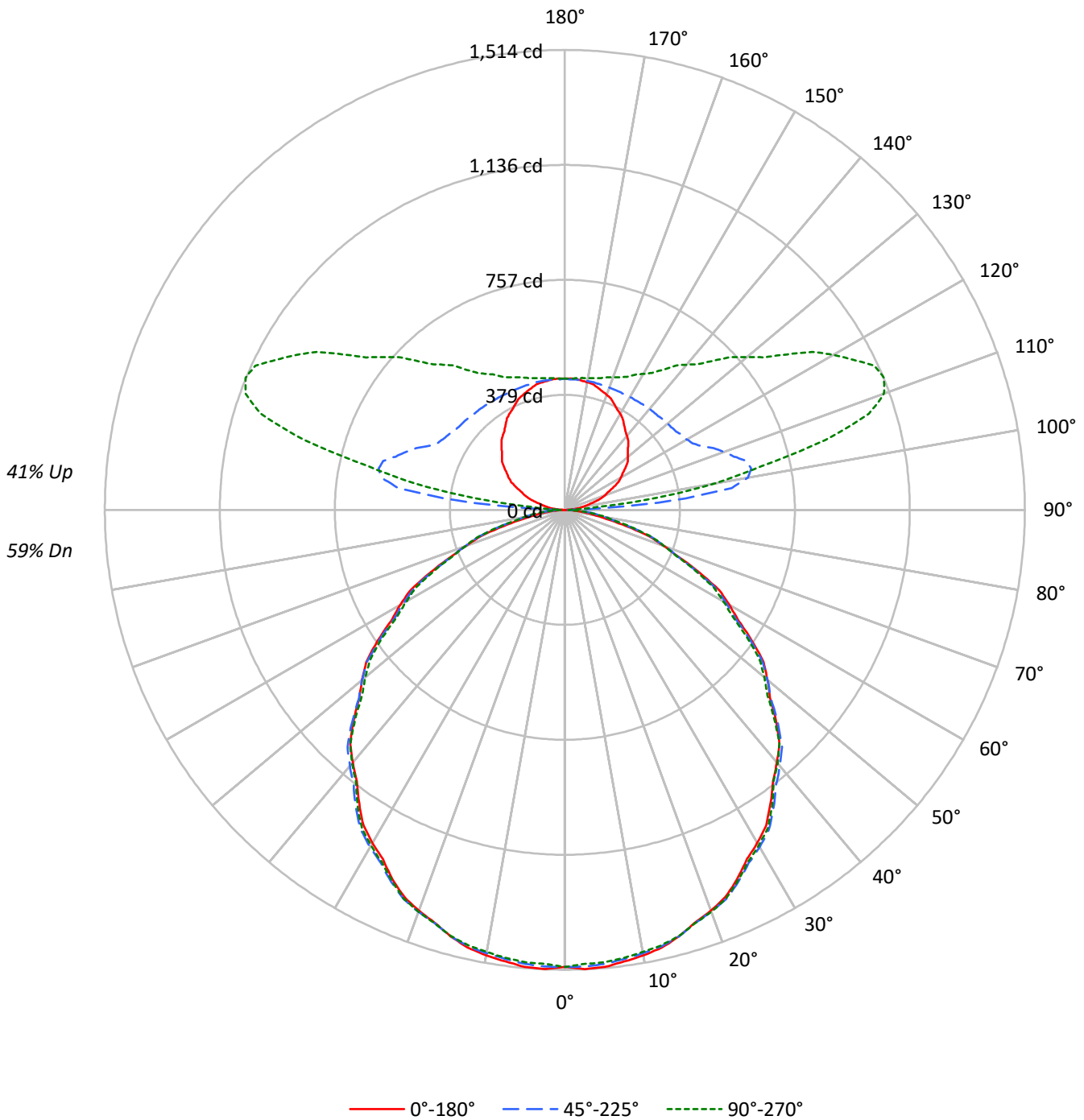
Lumens per Lamp: N/A  
Luminaire Lumens: 6928.6 lumens  
Efficiency: N/A  
Efficacy: 118.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 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	65	65	65	59
1	100	96	92	88	93	89	86	83	78	75	73	67	65	64	57	56	55	50
2	91	83	77	72	85	78	73	68	68	64	60	59	56	53	50	48	46	42
3	83	73	66	60	77	69	62	57	60	55	51	52	48	45	45	42	39	36
4	76	65	57	51	71	61	54	48	53	48	43	46	42	38	40	37	34	30
5	70	58	50	43	65	54	47	41	48	42	37	42	37	33	36	32	29	26
6	64	52	44	38	60	49	41	36	43	37	33	38	33	29	33	29	26	23
7	59	47	39	33	55	44	37	32	39	33	29	34	29	26	30	26	23	20
8	55	43	35	29	51	40	33	28	36	30	25	31	26	23	27	23	21	18
9	51	39	31	26	48	37	30	25	33	27	23	29	24	21	25	21	18	16
10	48	36	28	23	45	34	27	22	30	24	21	27	22	19	23	20	17	15

**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	2.1
10°-20°	408.7	5.9
20°-30°	618.9	8.9
30°-40°	741.9	10.7
40°-50°	756.5	10.9
50°-60°	660.4	9.5
60°-70°	472.8	6.8
70°-80°	243.5	3.5
80°-90°	63.2	0.9
90°-100°	207.4	3.0
100°-110°	563.3	8.1
110°-120°	579.1	8.4
120°-130°	463.0	6.7
130°-140°	363.8	5.3
140°-150°	279.0	4.0
150°-160°	200.6	2.9
160°-170°	122.7	1.8
170°-180°	41.3	0.6
0°-30°	1169.9	16.9
0°-40°	1911.9	27.6
0°-60°	3328.8	48.0
0°-90°	4108.4	59.3
90°-120°	1349.8	19.5
90°-150°	2455.6	35.4
90°-180°	2820.0	40.7
0°-180°	6928.6	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	6	10	12	12	3
95°	31	113	361	157	106	32
105°	100	156	619	943	888	106
115°	178	216	496	986	1124	175
125°	244	278	449	756	892	218
135°	294	327	436	616	694	228
145°	340	365	430	523	562	214
155°	385	398	428	470	483	177
165°	417	422	429	447	449	118
175°	432	433	430	436	435	41
180°	432	432	432	432	432	

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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°	9.2	19.8	24.2	24.7	22.6
90°	1.4	5.5	9.7	12.5	12.5
92.5°	12.5	56.8	98.6	42.4	35.8
95°	30.6	113.4	361.1	157.2	105.6
97.5°	50.6	125.2	553.6	430.7	302.5
100°	63.9	133.1	612.5	620.9	501.4
102.5°	77.2	141.0	628.0	767.9	662.5
105°	100.0	155.7	619.4	943.2	887.5
107.5°	123.6	172.8	583.6	1033.7	1049.1
110°	140.3	185.1	556.9	1051.5	1118.0

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	154.7	197.4	530.3	1036.7	1136.9
115°	177.8	215.8	495.8	986.4	1123.6
117.5°	199.4	235.8	473.9	915.2	1069.7
120°	213.9	249.2	463.9	867.4	1020.8
122.5°	226.1	261.4	457.2	819.5	967.5
125°	244.4	278.4	448.6	755.8	891.6
127.5°	260.8	294.5	443.9	707.6	824.2
130°	270.8	303.4	441.7	677.4	781.9
132.5°	280.8	313.4	439.4	651.5	744.2
135°	294.4	327.0	436.1	615.7	694.4
137.5°	309.2	338.8	434.4	584.0	650.3
140°	318.0	346.6	433.3	563.8	623.6
142.5°	326.9	353.3	432.2	548.1	598.0
145°	340.3	364.7	430.5	523.1	562.5
147.5°	355.3	376.2	429.2	503.5	534.4
150°	365.3	382.9	429.2	492.2	516.7
152.5°	373.0	388.5	428.0	482.1	502.2
155°	384.7	398.3	427.8	469.7	483.3
157.5°	396.1	406.7	427.8	461.3	471.7
160°	402.8	412.3	427.8	455.7	463.9
162.5°	409.4	416.8	428.9	451.2	457.2
165°	416.7	422.1	429.2	447.2	448.6
167.5°	424.2	426.9	430.5	442.5	443.6
170°	426.4	429.1	430.5	440.3	440.3
172.5°	428.6	430.2	430.5	438.0	438.0
175°	431.9	433.3	430.5	436.1	434.7
177.5°	433.0	433.0	429.7	434.1	431.9
180°	431.9	431.9	431.9	431.9	431.9

(END OF REPORT)