

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: P562631

Luminaire Tested: **SQ4-PC3-050U-075D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562631  
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-835-1D-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: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

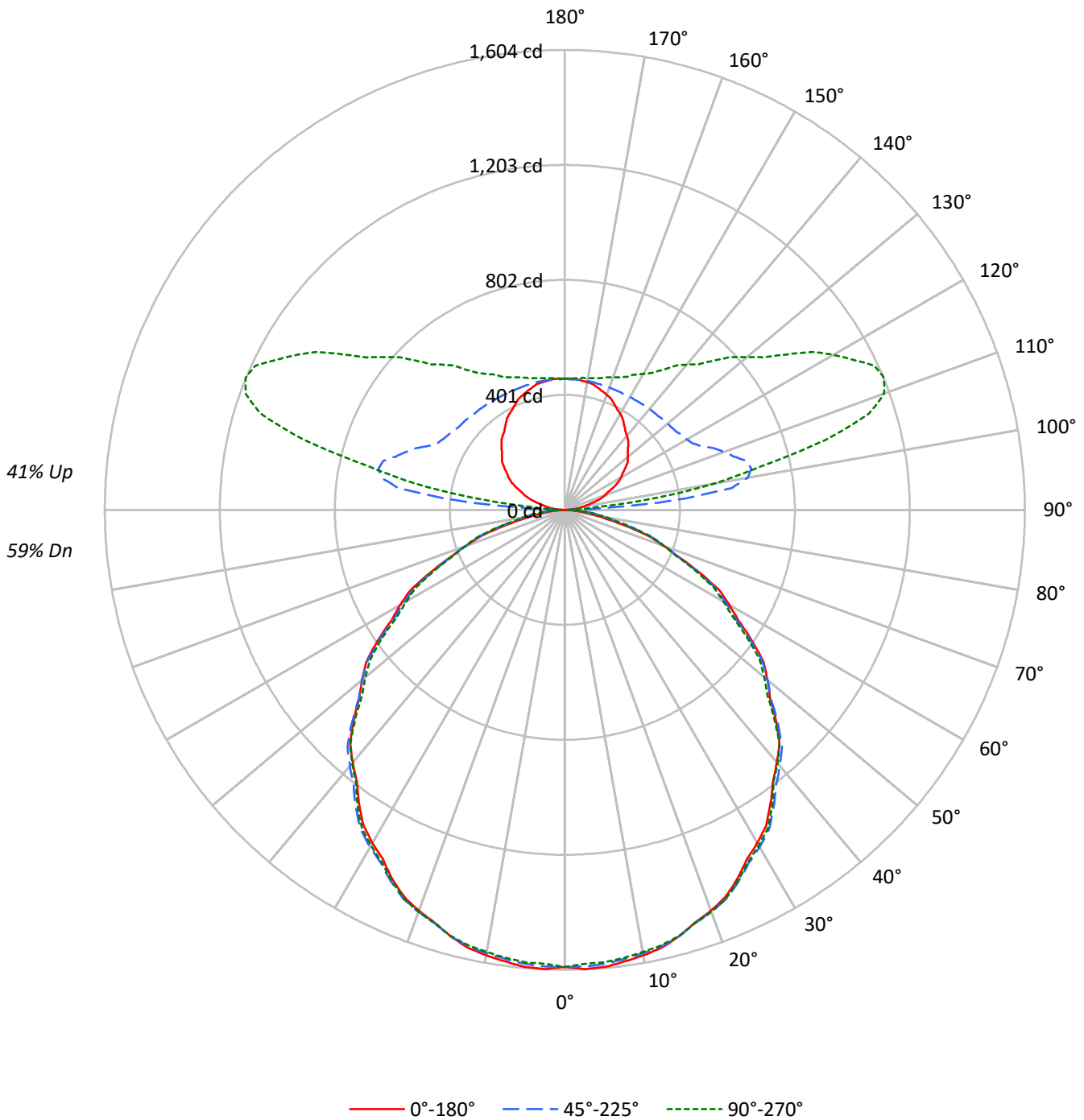
Lumens per Lamp: N/A  
Luminaire Lumens: 7340.5 lumens  
Efficiency: N/A  
Efficacy: 125.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: General Diffuse

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°	9806	9806	9806
5°	9879	9816	9779
10°	9855	9809	9781
15°	9804	9804	9794
20°	9739	9768	9768
25°	9647	9717	9687
30°	9530	9645	9603
35°	9388	9532	9466
40°	9233	9363	9268
45°	9065	9129	8988
50°	8828	8828	8687
55°	8548	8437	8310
60°	8135	7971	7845
65°	7519	7369	7305
70°	6584	6636	6609
75°	5297	5858	5894
80°	3765	4966	5019
85°	2294	4164	4164



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.9	2.1
10°-20°	433.0	5.9
20°-30°	655.7	8.9
30°-40°	786.1	10.7
40°-50°	801.5	10.9
50°-60°	699.7	9.5
60°-70°	500.9	6.8
70°-80°	258.0	3.5
80°-90°	67.0	0.9
90°-100°	219.7	3.0
100°-110°	596.8	8.1
110°-120°	613.6	8.4
120°-130°	490.6	6.7
130°-140°	385.5	5.3
140°-150°	295.6	4.0
150°-160°	212.5	2.9
160°-170°	130.0	1.8
170°-180°	43.8	0.6
0°-30°	1239.5	16.9
0°-40°	2025.5	27.6
0°-60°	3526.7	48.0
0°-90°	4352.6	59.3
90°-120°	1430.0	19.5
90°-150°	2601.6	35.4
90°-180°	2988.0	40.7
0°-180°	7340.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1594	1594	1594	1594	1594	
5°	1600	1584	1590	1585	1584	152
15°	1540	1527	1540	1540	1538	434
25°	1422	1411	1432	1427	1427	654
35°	1250	1247	1269	1261	1261	782
45°	1042	1039	1050	1036	1033	802
55°	797	787	787	775	775	711
65°	517	505	506	502	502	511
75°	223	233	246	248	248	241
85°	32	50	59	60	59	44
90°	2	6	10	13	13	4
95°	32	120	383	166	112	34
105°	106	165	656	999	940	113
115°	188	229	525	1045	1190	186
125°	259	295	475	801	945	231
135°	312	346	462	652	736	241
145°	360	386	456	554	596	226
155°	408	422	453	498	512	188
165°	441	447	455	474	475	125
175°	458	459	456	462	461	43
180°	458	458	458	458	458	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1594.2	1594.2	1594.2	1594.2	1594.2
2.5°	1603.6	1589.8	1594.2	1590.5	1584.7
5°	1600.1	1584.2	1589.8	1585.3	1583.8
7.5°	1588.6	1572.7	1580.0	1577.0	1575.6
10°	1577.9	1562.1	1570.6	1567.6	1566.1
12.5°	1563.8	1549.1	1558.8	1555.8	1555.5
15°	1539.6	1526.6	1539.6	1539.5	1538.1
17.5°	1509.2	1497.3	1511.2	1512.1	1511.2
20°	1487.9	1474.9	1492.3	1490.9	1492.3
22.5°	1461.9	1451.2	1469.9	1466.1	1467.5
25°	1421.5	1411.4	1431.8	1427.4	1427.4
27.5°	1373.7	1366.4	1388.7	1384.0	1384.0
30°	1341.8	1334.6	1358.0	1352.1	1352.1
32.5°	1306.3	1301.4	1323.8	1316.7	1316.7
35°	1250.3	1247.4	1269.4	1260.6	1260.6
37.5°	1192.4	1189.8	1209.8	1199.1	1195.6
40°	1149.9	1148.4	1166.1	1154.3	1154.3
42.5°	1107.4	1105.9	1121.2	1107.1	1107.1
45°	1042.1	1039.2	1049.5	1036.2	1033.3
47.5°	971.0	968.1	974.5	960.0	958.6
50°	922.6	919.7	922.6	909.2	907.8
52.5°	873.0	867.8	868.2	854.9	854.7
55°	797.1	787.0	786.8	774.9	774.9
57.5°	716.8	703.5	704.7	694.6	693.2
60°	661.3	646.9	648.0	639.1	637.7
62.5°	607.0	590.2	593.7	583.6	583.4
65°	516.6	505.1	506.3	501.9	501.9
67.5°	429.8	419.2	426.9	423.3	423.0
70°	366.1	358.9	369.0	369.0	367.5
72.5°	307.0	306.7	319.4	319.4	320.3
75°	222.9	233.0	246.5	248.0	248.0
77.5°	148.8	166.7	181.6	182.1	181.9
80°	106.3	126.5	140.2	143.1	141.7
82.5°	72.0	93.4	104.8	107.7	106.3
85°	32.5	49.8	59.0	60.5	59.0
87.5°	9.7	21.0	25.7	26.2	23.9
90°	1.5	5.8	10.3	13.2	13.2
92.5°	13.2	60.1	104.5	44.9	38.0
95°	32.4	120.1	382.6	166.5	111.8
97.5°	53.6	132.7	586.5	456.3	320.5
100°	67.7	141.1	648.9	657.8	531.2
102.5°	81.8	149.4	665.4	813.5	701.9
105°	105.9	164.9	656.3	999.2	940.2
107.5°	131.0	183.0	618.3	1095.1	1111.5
110°	148.6	196.1	590.0	1114.0	1184.5

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	163.9	209.1	561.8	1098.3	1204.5
115°	188.3	228.6	525.3	1045.1	1190.4
117.5°	211.3	249.9	502.0	969.6	1133.3
120°	226.6	264.0	491.5	918.9	1081.5
122.5°	239.5	277.0	484.4	868.2	1025.0
125°	259.0	294.9	475.3	800.8	944.7
127.5°	276.3	312.0	470.3	749.7	873.1
130°	286.9	321.5	467.9	717.6	828.4
132.5°	297.5	332.1	465.6	690.3	788.4
135°	311.9	346.5	462.0	652.3	735.7
137.5°	327.5	358.9	460.3	618.7	688.9
140°	337.0	367.2	459.1	597.4	660.7
142.5°	346.4	374.3	457.9	580.6	633.6
145°	360.5	386.4	456.1	554.2	595.9
147.5°	376.4	398.5	454.7	533.4	566.2
150°	387.0	405.7	454.7	521.5	547.4
152.5°	395.2	411.6	453.5	510.8	532.1
155°	407.6	422.0	453.2	497.7	512.1
157.5°	419.6	430.9	453.2	488.8	499.7
160°	426.7	436.8	453.2	482.8	491.5
162.5°	433.8	441.5	454.4	478.1	484.4
165°	441.4	447.2	454.7	473.8	475.3
167.5°	449.4	452.2	456.1	468.8	470.0
170°	451.7	454.6	456.1	466.4	466.4
172.5°	454.1	455.8	456.1	464.1	464.1
175°	457.6	459.1	456.1	462.0	460.6
177.5°	458.8	458.8	455.3	459.9	457.6
180°	457.6	457.6	457.6	457.6	457.6

(END OF REPORT)