

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: P562855

Luminaire Tested: **SQ4-PC3-0U-100D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562855  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-PC3-0U-100D-930-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

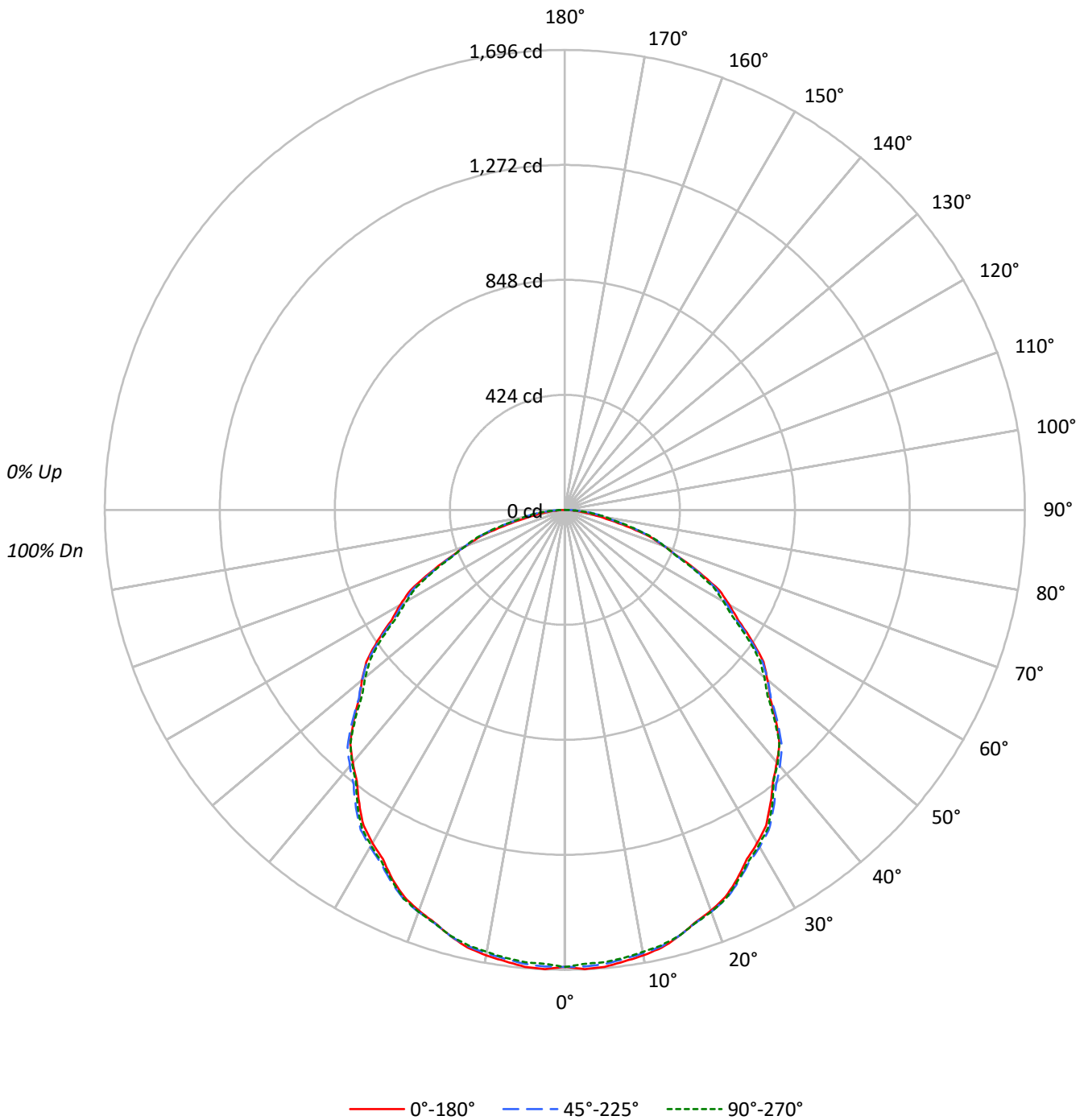
Lumens per Lamp: N/A  
Luminaire Lumens: 4600.2 lumens  
Efficiency: N/A  
Efficacy: 83.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Direct

Input Watts (W): 55.3  
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



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

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

	0°	45°	90°
0°	10368	10368	10368
5°	10446	10378	10339
10°	10420	10372	10342
15°	10365	10365	10356
20°	10297	10328	10328
25°	10200	10274	10242
30°	10076	10198	10153
35°	9926	10078	10008
40°	9762	9900	9800
45°	9585	9653	9503
50°	9334	9334	9184
55°	9038	8921	8787
60°	8601	8428	8294
65°	7949	7791	7722
70°	6962	7017	6988
75°	5601	6193	6231
80°	3981	5253	5306
85°	2421	4404	4404



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.5	3.5
10°-20°	457.8	10.0
20°-30°	693.2	15.1
30°-40°	831.1	18.1
40°-50°	847.4	18.4
50°-60°	739.8	16.1
60°-70°	529.6	11.5
70°-80°	272.8	5.9
80°-90°	69.0	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1310.5	28.5
0°-40°	2141.7	46.6
0°-60°	3728.9	81.1
0°-90°	4600.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4600.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1686	1686	1686	1686	1686	
5°	1692	1675	1681	1676	1675	161
15°	1628	1614	1628	1628	1626	459
25°	1503	1492	1514	1509	1509	692
35°	1322	1319	1342	1333	1333	827
45°	1102	1099	1110	1096	1092	848
55°	843	832	832	819	819	751
65°	546	534	535	531	531	540
75°	236	246	261	262	262	255
85°	34	53	62	64	62	48
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1685.6	1685.6	1685.6	1685.6	1685.6
2.5°	1695.6	1680.9	1685.6	1681.7	1675.6
5°	1691.8	1675.0	1680.9	1676.2	1674.6
7.5°	1679.6	1662.8	1670.6	1667.4	1665.9
10°	1668.4	1651.6	1660.6	1657.4	1655.9
12.5°	1653.4	1637.8	1648.1	1645.0	1644.7
15°	1627.8	1614.1	1627.8	1627.8	1626.3
17.5°	1595.7	1583.2	1597.9	1598.8	1597.9
20°	1573.2	1559.5	1577.9	1576.3	1577.9
22.5°	1545.7	1534.4	1554.2	1550.1	1551.7
25°	1503.0	1492.3	1513.9	1509.2	1509.2
27.5°	1452.4	1444.8	1468.3	1463.3	1463.3
30°	1418.7	1411.1	1435.8	1429.6	1429.6
32.5°	1381.2	1376.0	1399.6	1392.1	1392.1
35°	1321.9	1318.9	1342.2	1332.8	1332.8
37.5°	1260.7	1258.0	1279.2	1267.8	1264.2
40°	1215.8	1214.3	1233.0	1220.5	1220.5
42.5°	1170.8	1169.3	1185.5	1170.5	1170.5
45°	1101.9	1098.8	1109.7	1095.5	1092.5
47.5°	1026.6	1023.6	1030.4	1015.0	1013.5
50°	975.4	972.4	975.4	961.4	959.8
52.5°	923.0	917.5	918.0	904.0	903.6
55°	842.8	832.1	831.9	819.4	819.4
57.5°	757.9	743.8	745.1	734.4	732.9
60°	699.2	683.9	685.1	675.8	674.2
62.5°	641.8	624.1	627.7	617.1	616.8
65°	546.2	534.0	535.3	530.6	530.6
67.5°	454.5	443.2	451.4	447.6	447.3
70°	387.1	379.4	390.2	390.1	388.6
72.5°	324.6	324.3	337.7	337.8	338.7
75°	235.7	246.3	260.6	262.2	262.2
77.5°	157.3	176.2	192.0	192.6	192.3
80°	112.4	133.7	148.3	151.4	149.8
82.5°	76.2	98.7	110.8	113.9	112.4
85°	34.3	52.6	62.4	64.0	62.4
87.5°	10.0	21.0	25.0	24.9	22.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)