

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: P562571

Luminaire Tested: **SQ4-PC3-025U-100D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562571  
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-100D-935-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

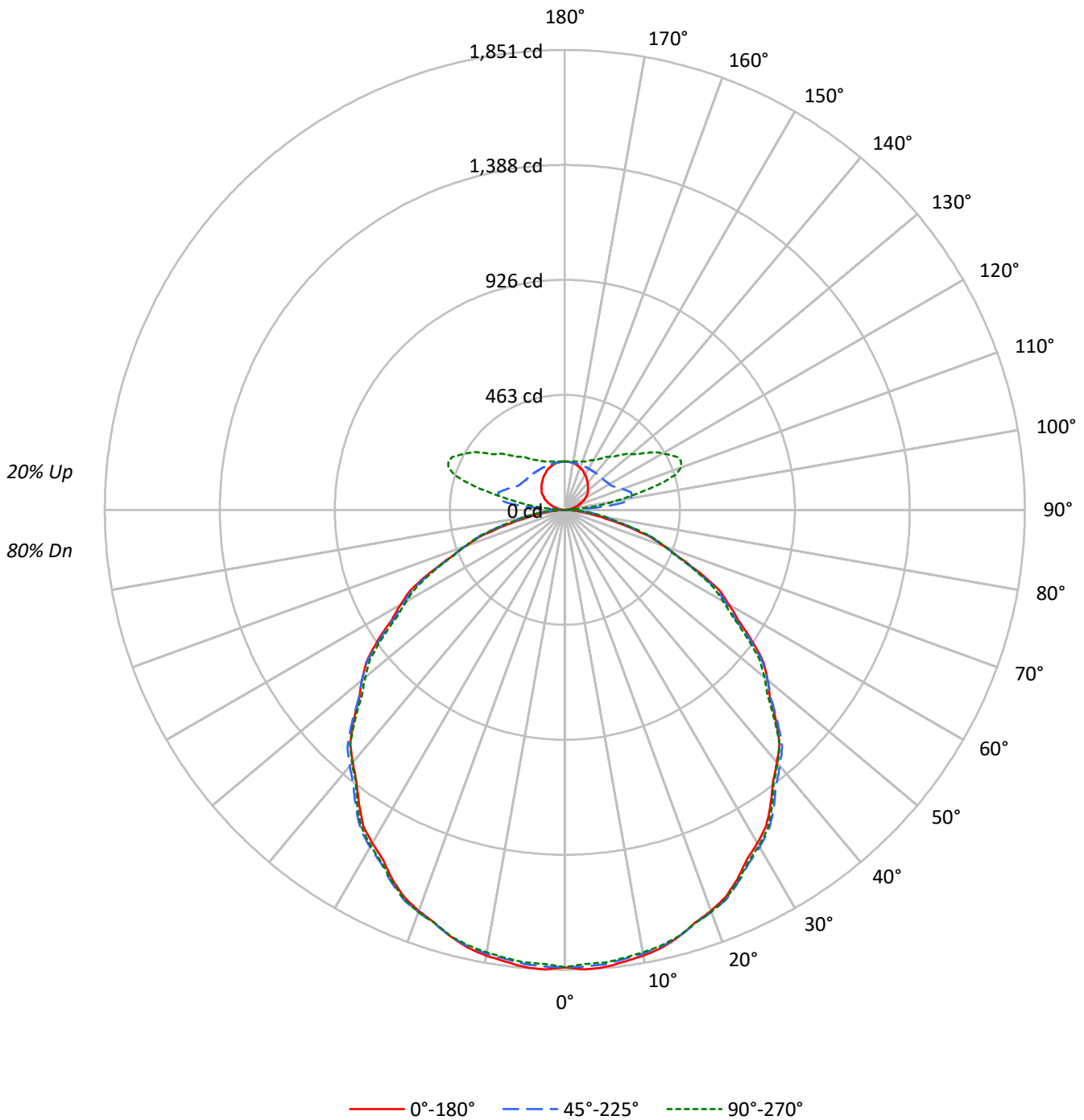
Lumens per Lamp: N/A  
Luminaire Lumens: 6283.0 lumens  
Efficiency: N/A  
Efficacy: 98.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 63.5  
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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	84	84	84	80
1	105	100	96	92	100	96	92	89	88	85	83	81	79	77	74	72	71	68
2	95	88	81	76	91	84	78	73	77	73	69	71	67	64	65	62	60	57
3	87	77	69	63	83	74	67	61	68	62	58	63	58	54	58	54	51	48
4	80	68	60	53	76	66	58	52	61	54	49	56	51	46	52	47	44	41
5	73	61	52	46	70	59	51	45	54	48	43	50	45	40	46	42	38	36
6	68	55	46	40	64	53	45	39	49	42	37	45	40	35	42	37	34	31
7	63	50	41	35	60	48	40	34	45	38	33	41	36	31	38	34	30	28
8	58	45	37	31	56	44	36	31	41	34	29	38	32	28	35	30	27	25
9	54	41	33	28	52	40	33	28	37	31	26	35	29	25	33	28	24	22
10	51	38	30	25	49	37	30	25	35	28	24	32	27	23	30	25	22	20

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

	0°	45°	90°
0°	11321	11321	11321
5°	11406	11332	11290
10°	11378	11325	11293
15°	11318	11318	11307
20°	11244	11277	11277
25°	11138	11218	11184
30°	11002	11135	11087
35°	10838	11005	10927
40°	10659	10810	10700
45°	10465	10540	10376
50°	10192	10192	10029
55°	9868	9740	9594
60°	9392	9203	9056
65°	8681	8507	8433
70°	7600	7661	7631
75°	6115	6763	6804
80°	4346	5735	5795
85°	2646	4813	4813



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	174.2	2.8
10°-20°	499.9	8.0
20°-30°	757.0	12.0
30°-40°	907.5	14.4
40°-50°	925.3	14.7
50°-60°	807.8	12.9
60°-70°	578.3	9.2
70°-80°	297.9	4.7
80°-90°	76.4	1.2
90°-100°	94.7	1.5
100°-110°	248.9	4.0
110°-120°	258.1	4.1
120°-130°	207.0	3.3
130°-140°	162.4	2.6
140°-150°	124.6	2.0
150°-160°	89.8	1.4
160°-170°	54.9	0.9
170°-180°	18.6	0.3
0°-30°	1431.0	22.8
0°-40°	2338.5	37.2
0°-60°	4071.6	64.8
0°-90°	5024.1	80.0
90°-120°	601.6	9.6
90°-150°	1095.7	17.4
90°-180°	1259.0	20.0
0°-180°	6283.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1840	1840	1840	1840	1840	
5°	1847	1829	1835	1830	1829	175
15°	1777	1762	1777	1777	1776	501
25°	1641	1629	1653	1648	1648	755
35°	1443	1440	1466	1455	1455	903
45°	1203	1200	1212	1196	1193	926
55°	920	909	908	895	895	820
65°	596	583	584	579	579	590
75°	257	269	285	286	286	278
85°	38	58	68	70	68	51
90°	1	4	10	5	5	3
95°	12	49	163	84	57	14
105°	45	68	275	418	390	48
115°	80	97	220	440	502	79
125°	111	124	200	339	400	98
135°	132	145	194	274	310	102
145°	153	163	192	233	252	96
155°	173	178	192	211	217	80
165°	187	189	192	199	202	53
175°	194	194	193	196	196	18
180°	194	194	194	194	194	

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CATALOG NUMBER: SQ4-PC3-025U-100D-935-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1840.5	1840.5	1840.5	1840.5	1840.5
2.5°	1851.4	1835.4	1840.5	1836.2	1829.6
5°	1847.3	1829.0	1835.4	1830.2	1828.6
7.5°	1834.0	1815.7	1824.1	1820.7	1819.0
10°	1821.7	1803.4	1813.2	1809.8	1808.1
12.5°	1805.4	1788.4	1799.6	1796.2	1795.8
15°	1777.4	1762.4	1777.4	1777.4	1775.7
17.5°	1742.3	1728.7	1744.7	1745.7	1744.7
20°	1717.8	1702.8	1722.9	1721.2	1722.9
22.5°	1687.8	1675.5	1697.0	1692.6	1694.3
25°	1641.1	1629.4	1653.0	1647.9	1647.9
27.5°	1585.9	1577.6	1603.3	1597.8	1597.8
30°	1549.1	1540.7	1567.8	1561.0	1561.0
32.5°	1508.2	1502.5	1528.3	1520.1	1520.1
35°	1443.4	1440.1	1465.6	1455.3	1455.3
37.5°	1376.6	1373.6	1396.7	1384.4	1380.4
40°	1327.5	1325.9	1346.3	1332.6	1332.6
42.5°	1278.5	1276.8	1294.5	1278.1	1278.1
45°	1203.1	1199.8	1211.7	1196.2	1192.9
47.5°	1121.0	1117.7	1125.1	1108.3	1106.7
50°	1065.1	1061.8	1065.1	1049.7	1048.1
52.5°	1007.8	1001.8	1002.4	987.0	986.7
55°	920.2	908.6	908.3	894.7	894.7
57.5°	827.5	812.2	813.6	801.9	800.3
60°	763.5	746.8	748.1	737.9	736.2
62.5°	700.7	681.4	685.4	673.8	673.5
65°	596.5	583.1	584.5	579.4	579.4
67.5°	496.2	483.9	492.8	488.7	488.4
70°	422.6	414.3	426.0	426.0	424.3
72.5°	354.5	354.1	368.8	368.8	369.8
75°	257.3	269.0	284.6	286.3	286.3
77.5°	171.8	192.4	209.6	210.3	210.0
80°	122.7	146.0	161.9	165.3	163.6
82.5°	83.2	107.8	121.0	124.4	122.7
85°	37.5	57.5	68.2	69.8	68.2
87.5°	11.2	23.6	29.3	28.2	25.5
90°	1.2	3.7	10.0	5.0	5.0
92.5°	5.2	25.2	55.8	24.7	15.9
95°	12.5	49.0	163.1	84.1	57.3
97.5°	21.7	53.8	244.0	194.1	142.9
100°	28.6	57.9	268.9	272.5	211.7
102.5°	34.6	61.9	275.9	339.5	287.4
105°	44.8	68.0	275.2	417.7	389.7
107.5°	55.3	76.7	259.5	458.3	465.2
110°	62.3	81.7	246.5	468.8	498.0



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CATALOG NUMBER: SQ4-PC3-025U-100D-935-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	69.2	87.7	234.6	462.2	507.0
115°	79.7	96.7	220.4	439.7	501.8
117.5°	89.9	105.5	210.7	408.5	477.4
120°	95.9	110.5	206.7	387.5	454.4
122.5°	101.8	116.5	203.7	366.6	432.5
125°	110.8	124.2	200.5	338.8	399.7
127.5°	118.0	131.7	197.7	316.4	367.8
130°	122.0	136.6	196.7	302.4	349.9
132.5°	126.0	140.6	195.7	290.3	332.9
135°	132.0	145.4	194.2	273.5	310.0
137.5°	138.2	151.3	194.0	260.9	290.8
140°	143.2	155.4	193.0	250.9	278.9
142.5°	147.2	158.4	193.0	243.8	267.9
145°	153.1	162.9	191.7	233.2	251.5
147.5°	159.1	168.6	191.7	224.5	239.6
150°	163.1	171.6	191.7	219.4	231.6
152.5°	167.1	173.7	191.7	215.4	224.6
155°	173.1	177.9	191.7	210.6	216.6
157.5°	177.5	182.2	191.7	206.3	210.7
160°	180.5	184.2	191.7	204.2	206.7
162.5°	183.5	186.2	191.7	202.3	204.7
165°	186.8	189.2	191.7	199.3	201.7
167.5°	189.7	191.0	193.0	198.0	199.0
170°	191.7	193.0	193.0	198.0	198.0
172.5°	192.7	193.0	193.0	196.9	196.0
175°	194.2	194.2	193.0	195.5	195.5
177.5°	194.2	194.2	193.2	195.2	194.2
180°	194.2	194.2	194.2	194.2	194.2

(END OF REPORT)