

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: P562859

Luminaire Tested: **SQ4-PC3-0U-100D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562859  
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-935-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

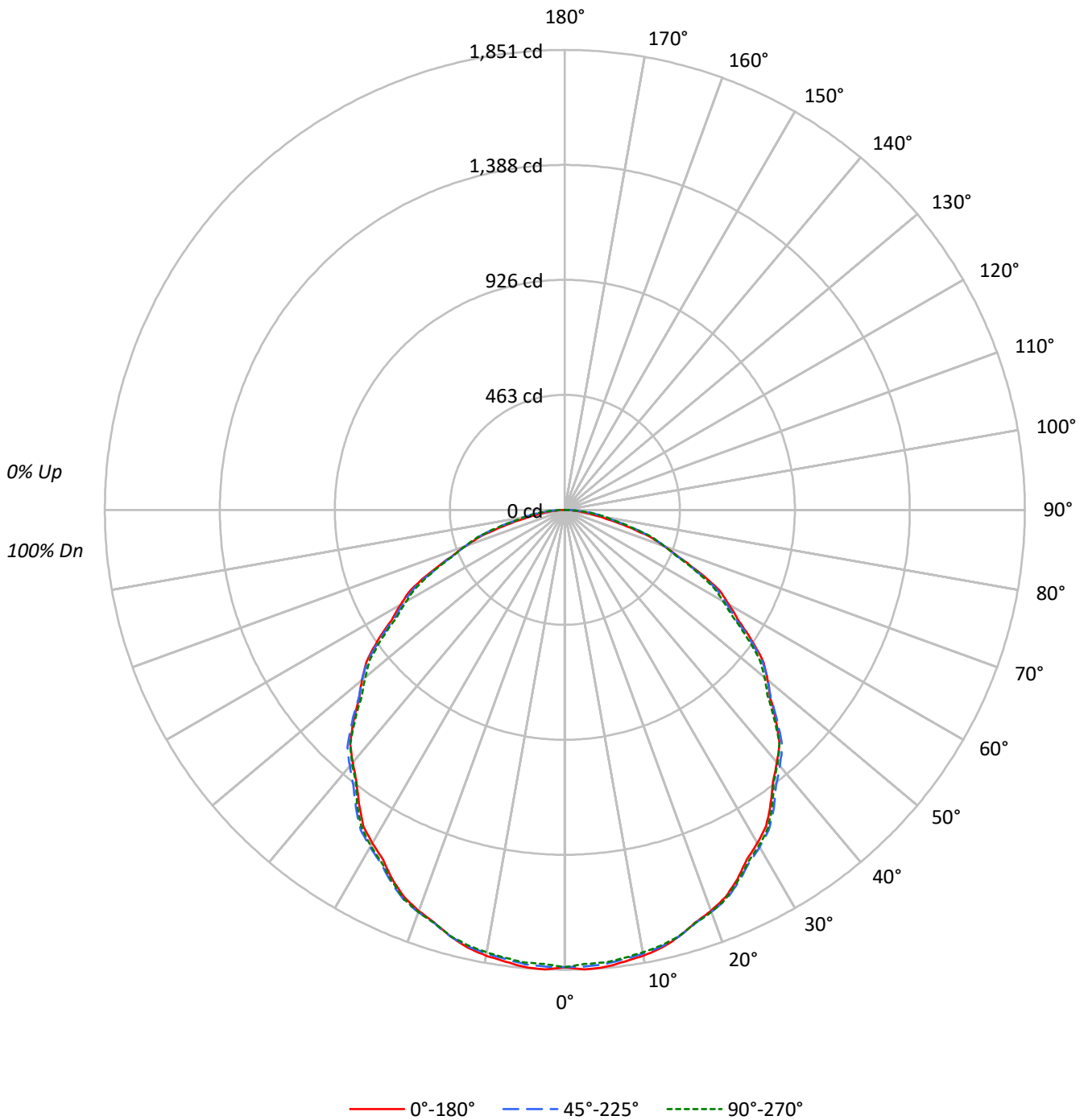
Lumens per Lamp: N/A  
Luminaire Lumens: 5023.0 lumens  
Efficiency: N/A  
Efficacy: 90.8 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Direct

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°	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	3.5
10°-20°	499.9	10.0
20°-30°	757.0	15.1
30°-40°	907.5	18.1
40°-50°	925.3	18.4
50°-60°	807.8	16.1
60°-70°	578.3	11.5
70°-80°	297.9	5.9
80°-90°	75.3	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°	1431.0	28.5
0°-40°	2338.5	46.6
0°-60°	4071.6	81.1
0°-90°	5023.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5023.0	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	52
90°	0	0	0	0	0	



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**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°	10.9	22.9	27.3	27.2	24.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)