

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: P562981

Luminaire Tested: **SQ4-PC3-100U-125D-940-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562981  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PC3-100U-125D-940-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

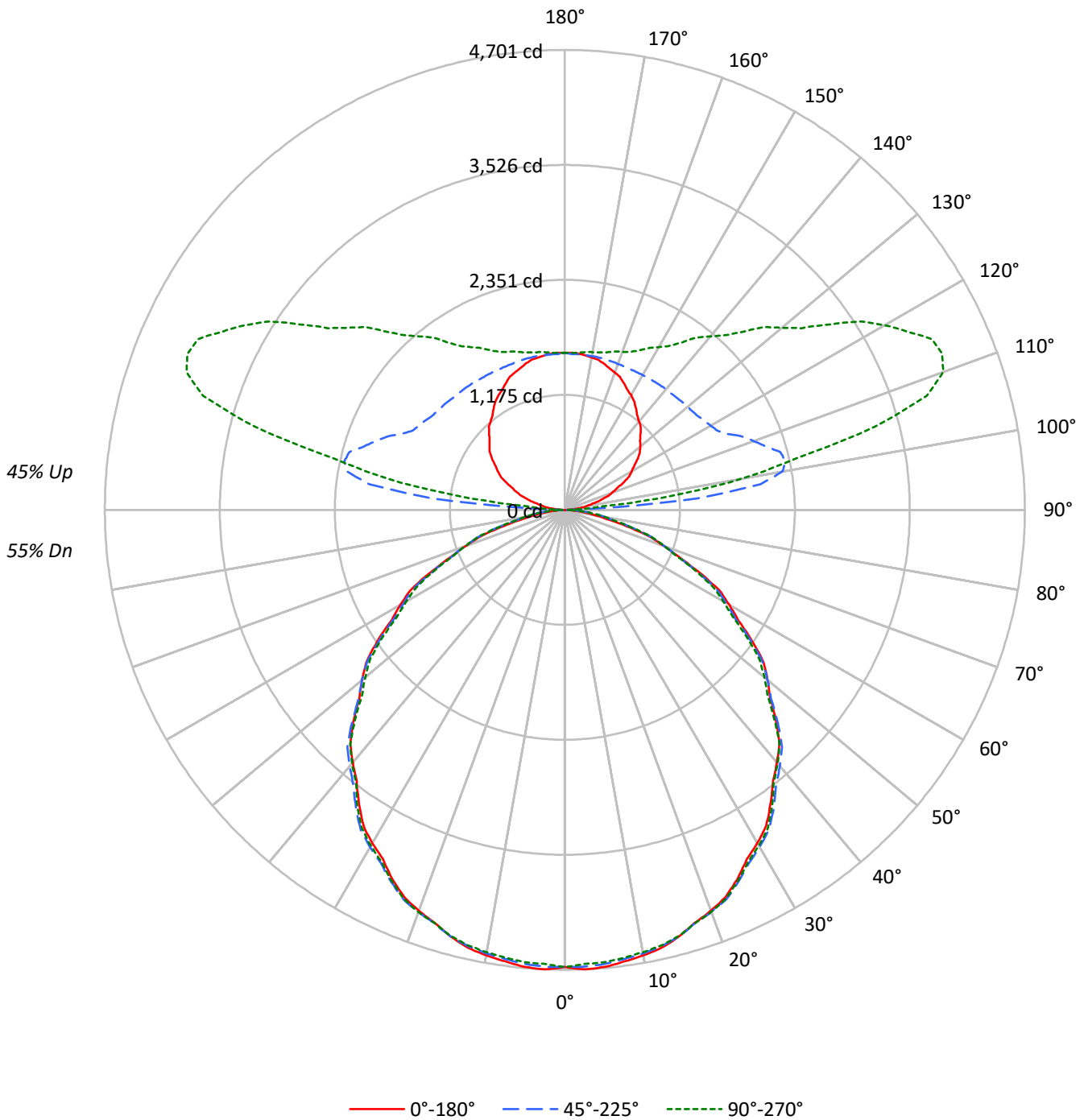
Lumens per Lamp: N/A  
Luminaire Lumens: 23174.4 lumens  
Efficiency: N/A  
Efficacy: 107.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 214.8  
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



TEST NUMBER: P562981  
CATALOG NUMBER: SQ4-PC3-100U-125D-940-1D-UNV-STD-W-12

### Luminous Intensity Polar Plot





TEST NUMBER: P562981

CATALOG NUMBER: SQ4-PC3-100U-125D-940-1D-UNV-STD-W-12

**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	50	30	10	0	
RCR																						
0	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55				
1	99	95	91	87	92	88	85	82	76	73	71	64	63	61	54	53	51	47				
2	90	83	76	71	83	77	72	67	66	62	59	56	54	51	47	45	43	39				
3	82	73	65	59	76	68	61	56	58	53	49	50	46	43	42	39	37	33				
4	75	64	56	50	70	60	53	47	52	46	42	44	40	37	37	34	32	28				
5	69	57	49	43	64	54	46	41	46	41	36	40	35	32	34	30	28	24				
6	64	51	43	37	59	48	41	35	42	36	32	36	31	28	31	27	24	21				
7	59	46	38	33	54	43	36	31	38	32	28	33	28	25	28	24	22	19				
8	55	42	34	29	51	39	32	27	35	29	25	30	25	22	26	22	19	17				
9	51	38	31	26	47	36	29	25	32	26	22	28	23	20	24	20	17	15				
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	22	18	16	14				

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

	0°	45°	90°
0°	14373	14373	14373
5°	14482	14388	14335
10°	14446	14379	14338
15°	14370	14370	14356
20°	14276	14318	14318
25°	14141	14243	14200
30°	13969	14138	14076
35°	13761	13972	13875
40°	13533	13724	13586
45°	13287	13382	13175
50°	12940	12940	12733
55°	12529	12367	12181
60°	11925	11685	11498
65°	11022	10801	10707
70°	9650	9727	9689
75°	7764	8587	8639
80°	5519	7281	7357
85°	3359	6108	6108



TEST NUMBER: P562981

CATALOG NUMBER: SQ4-PC3-100U-125D-940-1D-UNV-STD-W-12

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	442.3	1.9
10°-20°	1269.3	5.5
20°-30°	1922.2	8.3
30°-40°	2304.4	9.9
40°-50°	2349.7	10.1
50°-60°	2051.2	8.9
60°-70°	1468.4	6.3
70°-80°	756.3	3.3
80°-90°	194.6	0.8
90°-100°	750.7	3.2
100°-110°	2072.5	8.9
110°-120°	2137.5	9.2
120°-130°	1717.6	7.4
130°-140°	1349.9	5.8
140°-150°	1035.3	4.5
150°-160°	744.1	3.2
160°-170°	455.0	2.0
170°-180°	153.4	0.7
0°-30°	3633.7	15.7
0°-40°	5938.1	25.6
0°-60°	10339.0	44.6
0°-90°	12758.3	55.1
90°-120°	4960.7	21.4
90°-150°	9063.6	39.1
90°-180°	10416.0	44.9
0°-180°	23174.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4674	4674	4674	4674	4674	
5°	4691	4644	4661	4648	4643	445
15°	4513	4475	4513	4513	4509	1273
25°	4167	4138	4198	4185	4185	1918
35°	3665	3657	3722	3696	3696	2292
45°	3055	3047	3077	3038	3029	2352
55°	2337	2307	2306	2272	2272	2083
65°	1515	1481	1484	1471	1471	1498
75°	653	683	723	727	727	706
85°	95	146	173	177	173	130
90°	5	10	20	23	26	12
95°	110	406	1362	560	364	118
105°	369	570	2280	3481	3278	393
115°	662	800	1836	3636	4135	650
125°	908	1033	1665	2817	3306	808
135°	1093	1210	1618	2282	2573	845
145°	1267	1355	1598	1942	2090	793
155°	1429	1476	1585	1743	1798	658
165°	1547	1567	1593	1655	1667	436
175°	1603	1606	1595	1618	1613	152
180°	1603	1603	1603	1603	1603	

TEST NUMBER: P562981

CATALOG NUMBER: SQ4-PC3-100U-125D-940-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4673.6	4673.6	4673.6	4673.6	4673.6
2.5°	4701.2	4660.6	4673.6	4662.8	4645.9
5°	4690.9	4644.3	4660.6	4647.5	4643.3
7.5°	4657.1	4610.6	4632.0	4623.3	4619.0
10°	4625.9	4579.4	4604.3	4595.6	4591.3
12.5°	4584.4	4541.2	4569.7	4561.0	4560.2
15°	4513.4	4475.4	4513.4	4513.3	4509.1
17.5°	4424.3	4389.6	4430.4	4432.9	4430.4
20°	4362.0	4323.9	4375.0	4370.7	4375.0
22.5°	4285.8	4254.5	4309.2	4298.0	4302.3
25°	4167.2	4137.6	4197.5	4184.6	4184.6
27.5°	4027.0	4005.9	4071.2	4057.3	4057.3
30°	3933.6	3912.4	3981.2	3963.9	3963.9
32.5°	3829.7	3815.3	3880.8	3860.0	3860.0
35°	3665.3	3656.8	3721.5	3695.6	3695.6
37.5°	3495.6	3488.0	3546.7	3515.3	3505.2
40°	3371.0	3366.8	3418.6	3384.0	3384.0
42.5°	3246.4	3242.2	3287.1	3245.5	3245.5
45°	3055.1	3046.7	3076.8	3037.6	3029.2
47.5°	2846.5	2838.1	2856.9	2814.4	2810.2
50°	2704.6	2696.1	2704.6	2665.6	2661.3
52.5°	2559.2	2544.0	2545.4	2506.4	2505.5
55°	2336.8	2307.2	2306.5	2271.9	2271.9
57.5°	2101.4	2062.4	2065.9	2036.4	2032.1
60°	1938.7	1896.3	1899.7	1873.7	1869.4
62.5°	1779.4	1730.3	1740.5	1711.0	1710.2
65°	1514.6	1480.7	1484.3	1471.3	1471.3
67.5°	1260.1	1228.8	1251.5	1241.1	1240.2
70°	1073.2	1052.0	1081.8	1081.7	1077.5
72.5°	900.1	899.2	936.4	936.5	939.0
75°	653.4	683.0	722.7	727.0	727.0
77.5°	436.2	488.7	532.3	534.0	533.1
80°	311.6	370.8	411.1	419.7	415.4
82.5°	211.2	273.8	307.2	315.8	311.6
85°	95.2	146.0	173.1	177.3	173.1
87.5°	28.7	60.2	73.3	73.7	67.4
90°	5.1	10.1	20.5	23.1	25.6
92.5°	46.2	191.6	342.7	125.1	97.5
95°	110.3	406.2	1362.0	559.8	364.2
97.5°	182.6	455.0	2017.6	1553.3	1125.0
100°	236.0	484.3	2259.7	2275.7	1849.3
102.5°	287.3	517.5	2306.9	2811.8	2407.5
105°	369.4	570.0	2280.2	3481.2	3278.0
107.5°	456.6	635.1	2153.0	3804.0	3878.2
110°	518.1	678.6	2054.5	3873.4	4114.2



TEST NUMBER: P562981

CATALOG NUMBER: SQ4-PC3-100U-125D-940-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	573.5	728.0	1962.2	3818.6	4173.7
115°	661.8	799.7	1836.5	3635.6	4134.7
117.5°	738.7	876.1	1753.9	3378.1	3945.9
120°	790.0	925.4	1721.1	3203.8	3775.6
122.5°	839.3	968.7	1694.4	3041.0	3582.7
125°	908.0	1033.4	1664.7	2817.2	3306.2
127.5°	966.5	1091.9	1647.2	2627.9	3049.7
130°	1005.5	1130.9	1639.0	2512.1	2895.8
132.5°	1042.4	1161.8	1630.8	2414.9	2762.5
135°	1092.7	1210.5	1618.5	2281.7	2572.7
137.5°	1149.1	1256.4	1612.3	2170.0	2418.2
140°	1179.9	1285.2	1608.2	2095.4	2313.6
142.5°	1214.8	1312.1	1604.1	2029.1	2221.3
145°	1267.1	1354.9	1598.0	1942.5	2090.4
147.5°	1317.4	1394.1	1592.3	1869.4	1984.2
150°	1354.3	1417.0	1590.3	1825.8	1918.6
152.5°	1383.0	1441.7	1588.2	1788.5	1865.2
155°	1428.7	1476.3	1585.1	1742.9	1798.0
157.5°	1470.7	1507.4	1585.7	1709.6	1747.2
160°	1495.4	1528.0	1587.7	1690.9	1718.5
162.5°	1515.9	1544.5	1589.8	1674.4	1695.9
165°	1546.7	1566.7	1592.8	1654.7	1667.2
167.5°	1570.3	1582.3	1595.4	1642.7	1646.7
170°	1582.6	1592.6	1595.4	1636.4	1636.4
172.5°	1592.8	1598.9	1595.4	1628.2	1626.2
175°	1603.1	1605.6	1595.4	1618.4	1613.4
177.5°	1607.2	1605.2	1594.9	1609.2	1605.1
180°	1603.1	1603.1	1603.1	1603.1	1603.1

(END OF REPORT)