

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: P562911

Luminaire Tested: **SQ4-PC3-100U-050D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562911  
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-050D-940-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

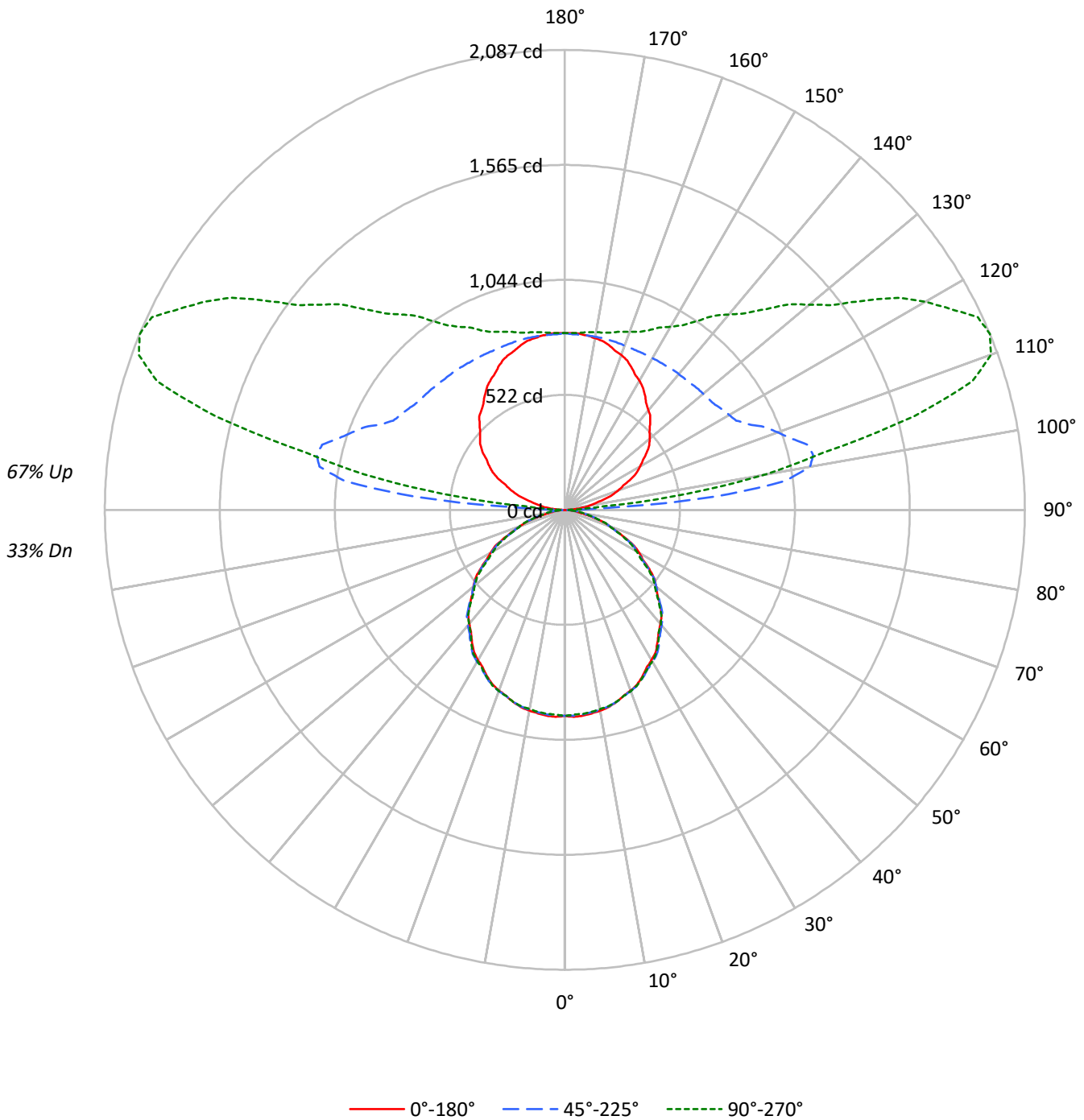
Lumens per Lamp: N/A  
Luminaire Lumens: 7761.6 lumens  
Efficiency: N/A  
Efficacy: 120.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 64.3  
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



TEST NUMBER: P562911  
CATALOG NUMBER: SQ4-PC3-100U-050D-940-1D-UNV-STD-W-6

### Luminous Intensity Polar Plot





TEST NUMBER: P562911

CATALOG NUMBER: SQ4-PC3-100U-050D-940-1D-UNV-STD-W-6

**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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	33
1	94	90	86	83	85	81	78	75	65	63	61	50	48	47	36	35	34	28
2	86	78	72	67	77	71	66	62	57	53	50	44	41	39	31	30	29	23
3	78	69	62	56	70	62	56	51	50	46	42	38	36	33	28	26	24	20
4	71	61	53	47	64	55	48	43	44	39	36	34	31	28	25	23	21	17
5	65	54	46	40	59	49	42	37	39	34	31	31	27	24	22	20	18	15
6	60	48	40	35	54	44	37	32	35	30	27	28	24	21	20	18	16	13
7	55	43	36	30	50	40	33	28	32	27	23	25	21	19	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	21	23	19	17	17	14	13	10
9	48	36	29	24	43	33	26	22	27	22	18	21	17	15	16	13	11	9
10	44	33	26	21	40	30	24	19	24	20	16	19	16	13	14	12	10	8

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

	0°	45°	90°
0°	5751	5751	5751
5°	5795	5757	5736
10°	5780	5754	5737
15°	5750	5750	5744
20°	5712	5729	5729
25°	5658	5699	5682
30°	5590	5657	5633
35°	5506	5591	5552
40°	5415	5492	5436
45°	5317	5355	5271
50°	5178	5178	5095
55°	5013	4949	4874
60°	4772	4676	4601
65°	4410	4323	4285
70°	3861	3892	3877
75°	3106	3436	3458
80°	2207	2912	2943
85°	1341	2442	2442



TEST NUMBER: P562911

CATALOG NUMBER: SQ4-PC3-100U-050D-940-1D-UNV-STD-W-6

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.5	1.1
10°-20°	253.9	3.3
20°-30°	384.6	5.0
30°-40°	461.0	5.9
40°-50°	470.1	6.1
50°-60°	410.4	5.3
60°-70°	293.8	3.8
70°-80°	151.3	1.9
80°-90°	39.9	0.5
90°-100°	375.4	4.8
100°-110°	1036.3	13.4
110°-120°	1068.7	13.8
120°-130°	858.8	11.1
130°-140°	674.9	8.7
140°-150°	517.7	6.7
150°-160°	372.0	4.8
160°-170°	227.5	2.9
170°-180°	76.7	1.0
0°-30°	727.0	9.4
0°-40°	1188.1	15.3
0°-60°	2068.5	26.7
0°-90°	2553.6	32.9
90°-120°	2480.4	32.0
90°-150°	4531.8	58.4
90°-180°	5208.0	67.1
0°-180°	7761.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	935	935	935	935	935	
5°	938	929	932	930	929	89
15°	903	895	903	903	902	255
25°	834	828	840	837	837	384
35°	733	732	745	739	739	459
45°	611	610	616	608	606	470
55°	468	462	462	454	454	417
65°	303	296	297	294	294	300
75°	131	137	145	146	146	141
85°	19	29	35	36	35	26
90°	3	5	10	12	13	5
95°	55	203	681	280	182	59
105°	185	285	1140	1741	1639	196
115°	331	400	918	1818	2067	325
125°	454	517	832	1409	1653	404
135°	546	605	809	1141	1286	423
145°	634	677	799	971	1045	397
155°	714	738	793	871	899	329
165°	773	783	796	827	834	218
175°	802	803	798	809	807	76
180°	802	802	802	802	802	



TEST NUMBER: P562911

CATALOG NUMBER: SQ4-PC3-100U-050D-940-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	935.0	935.0	935.0	935.0	935.0
2.5°	940.6	932.5	935.0	932.9	929.5
5°	938.5	929.2	932.4	929.8	929.0
7.5°	931.7	922.4	926.7	925.0	924.1
10°	925.5	916.2	921.2	919.4	918.6
12.5°	917.2	908.6	914.3	912.5	912.4
15°	903.0	895.4	903.0	903.0	902.1
17.5°	885.2	878.2	886.4	886.9	886.4
20°	872.7	865.1	875.3	874.5	875.3
22.5°	857.5	851.2	862.1	859.9	860.8
25°	833.7	827.8	839.8	837.2	837.2
27.5°	805.7	801.5	814.5	811.8	811.8
30°	787.0	782.8	796.5	793.1	793.1
32.5°	766.2	763.3	776.4	772.3	772.3
35°	733.3	731.6	744.6	739.4	739.4
37.5°	699.4	697.9	709.6	703.3	701.3
40°	674.4	673.6	684.0	677.0	677.0
42.5°	649.5	648.7	657.6	649.3	649.3
45°	611.2	609.5	615.6	607.7	606.0
47.5°	569.5	567.8	571.6	563.1	562.2
50°	541.1	539.4	541.1	533.3	532.5
52.5°	512.0	509.0	509.2	501.5	501.3
55°	467.5	461.6	461.5	454.5	454.5
57.5°	420.4	412.6	413.3	407.4	406.6
60°	387.9	379.4	380.1	374.9	374.0
62.5°	356.0	346.2	348.2	342.3	342.2
65°	303.0	296.2	297.0	294.4	294.4
67.5°	252.1	245.8	250.4	248.3	248.1
70°	214.7	210.5	216.4	216.4	215.6
72.5°	180.1	179.9	187.4	187.4	187.9
75°	130.7	136.7	144.6	145.5	145.5
77.5°	87.3	97.8	106.5	106.8	106.7
80°	62.3	74.2	82.2	84.0	83.1
82.5°	42.2	54.8	61.5	63.2	62.3
85°	19.0	29.2	34.6	35.5	34.6
87.5°	6.1	12.7	15.9	16.1	15.0
90°	2.6	5.1	10.3	11.6	12.8
92.5°	23.1	95.8	171.3	62.5	48.7
95°	55.1	203.1	681.0	279.9	182.1
97.5°	91.3	227.5	1008.8	776.7	562.5
100°	118.0	242.1	1129.9	1137.8	924.7
102.5°	143.6	258.8	1153.5	1405.9	1203.7
105°	184.7	285.0	1140.1	1740.6	1639.0
107.5°	228.3	317.6	1076.5	1902.0	1939.1
110°	259.1	339.3	1027.3	1936.7	2057.1



TEST NUMBER: P562911

CATALOG NUMBER: SQ4-PC3-100U-050D-940-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	286.8	364.0	981.1	1909.3	2086.8
115°	330.9	399.8	918.3	1817.8	2067.4
117.5°	369.4	438.1	877.0	1689.1	1973.0
120°	395.0	462.7	860.5	1601.9	1887.8
122.5°	419.6	484.3	847.2	1520.5	1791.4
125°	454.0	516.7	832.3	1408.6	1653.1
127.5°	483.2	545.9	823.6	1313.9	1524.9
130°	502.7	565.4	819.5	1256.1	1447.9
132.5°	521.2	580.9	815.4	1207.4	1381.2
135°	546.3	605.3	809.2	1140.9	1286.3
137.5°	574.6	628.2	806.2	1085.0	1209.1
140°	589.9	642.6	804.1	1047.7	1156.8
142.5°	607.4	656.0	802.1	1014.6	1110.6
145°	633.5	677.4	799.0	971.2	1045.2
147.5°	658.7	697.1	796.2	934.7	992.1
150°	677.1	708.5	795.1	912.9	959.3
152.5°	691.5	720.9	794.1	894.2	932.6
155°	714.3	738.2	792.6	871.4	899.0
157.5°	735.4	753.7	792.8	854.8	873.6
160°	747.7	764.0	793.9	845.5	859.3
162.5°	757.9	772.2	794.9	837.2	848.0
165°	773.3	783.4	796.4	827.3	833.6
167.5°	785.1	791.2	797.7	821.3	823.4
170°	791.3	796.3	797.7	818.2	818.2
172.5°	796.4	799.4	797.7	814.1	813.1
175°	801.5	802.8	797.7	809.2	806.7
177.5°	803.6	802.6	797.4	804.6	802.6
180°	801.5	801.5	801.5	801.5	801.5

(END OF REPORT)