

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: P563213

Luminaire Tested: **SQ4-PP3-025U-075D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563213  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-025U-075D-930-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9166.7 lumens  
Efficiency: N/A  
Efficacy: 96.7 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Direct

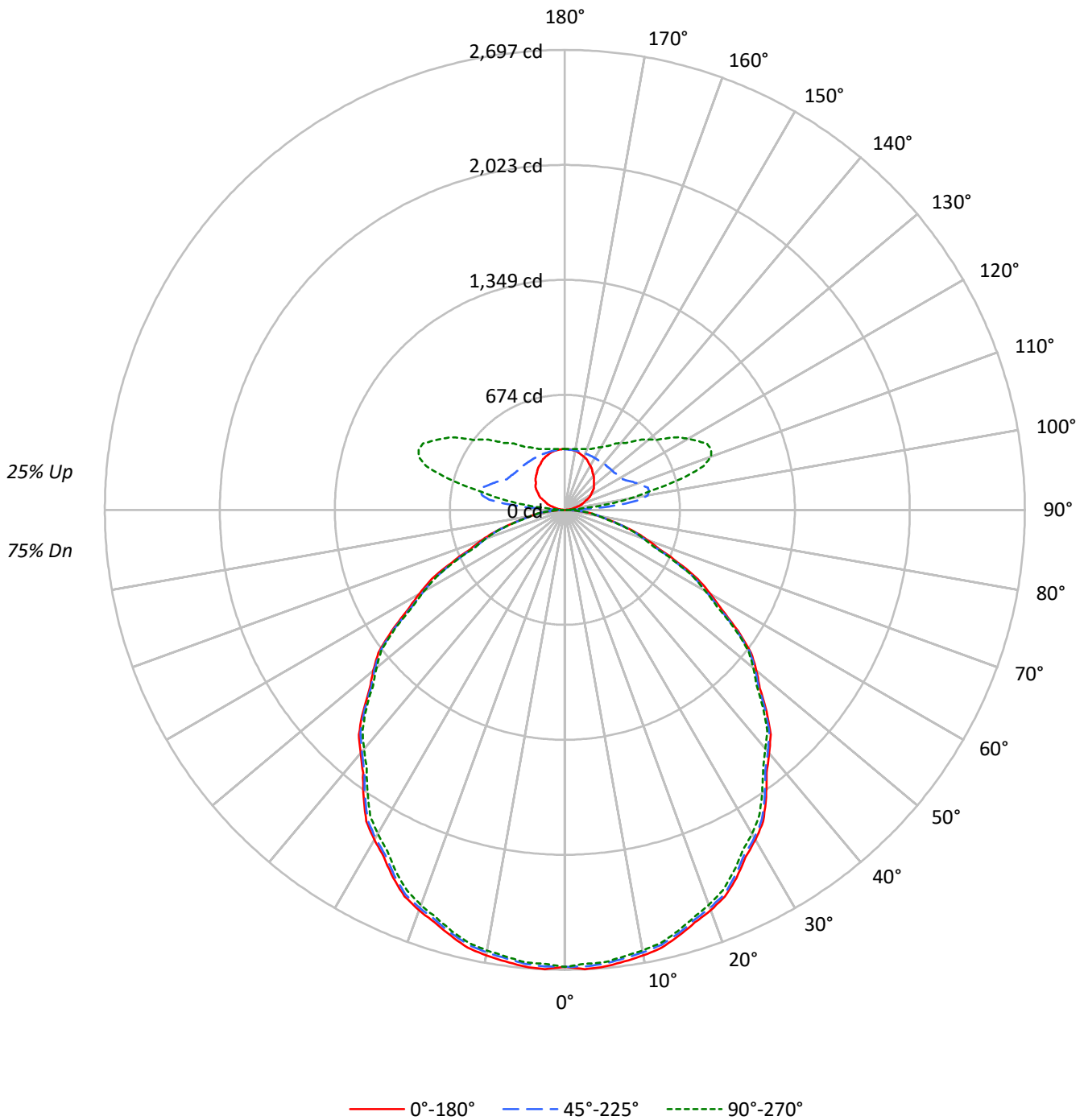
Input Watts (W): 94.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P563213

CATALOG NUMBER: SQ4-PP3-025U-075D-930-1D-UNV-STD-W-12

### Luminous Intensity Polar Plot





TEST NUMBER: P563213

CATALOG NUMBER: SQ4-PP3-025U-075D-930-1D-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	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79	75				
1	104	99	95	92	98	95	91	88	86	83	81	78	76	74	70	69	67	64				
2	95	87	81	76	90	83	77	73	76	71	67	69	65	62	62	60	57	54				
3	87	77	69	63	82	73	67	61	67	61	57	61	57	53	55	52	49	46				
4	79	68	60	54	75	65	58	52	60	54	49	54	49	45	50	46	42	39				
5	73	61	53	46	69	58	51	45	54	47	42	49	44	40	45	40	37	34				
6	67	55	46	40	64	53	45	39	48	42	37	44	39	35	41	36	33	30				
7	62	50	41	36	59	48	40	35	44	37	33	40	35	31	37	33	29	27				
8	58	45	37	32	55	44	36	31	40	34	29	37	32	28	34	29	26	24				
9	54	41	34	28	51	40	33	28	37	31	26	34	29	25	32	27	24	22				
10	51	38	31	26	48	37	30	25	34	28	24	32	26	23	29	25	21	20				

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

	0°	45°	90°
0°	8241	8241	8241
5°	8302	8251	8222
10°	8288	8229	8193
15°	8233	8188	8143
20°	8179	8133	8071
25°	8081	8026	7946
30°	7932	7890	7790
35°	7724	7671	7574
40°	7477	7430	7345
45°	7273	7222	7151
50°	7012	6967	6900
55°	6649	6561	6511
60°	6053	5880	5851
65°	5333	5110	5093
70°	4604	4414	4414
75°	3963	3907	3851
80°	3494	3535	3452
85°	2735	2985	2985



TEST NUMBER: P563213

CATALOG NUMBER: SQ4-PP3-025U-075D-930-1D-UNV-STD-W-12

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	253.4	2.8
10°-20°	723.6	7.9
20°-30°	1083.8	11.8
30°-40°	1271.2	13.9
40°-50°	1275.2	13.9
50°-60°	1087.8	11.9
60°-70°	709.5	7.7
70°-80°	355.9	3.9
80°-90°	100.4	1.1
90°-100°	173.4	1.9
100°-110°	455.8	5.0
110°-120°	472.7	5.2
120°-130°	379.1	4.1
130°-140°	297.5	3.2
140°-150°	228.3	2.5
150°-160°	164.5	1.8
160°-170°	100.6	1.1
170°-180°	34.0	0.4
0°-30°	2060.7	22.5
0°-40°	3331.9	36.3
0°-60°	5695.0	62.1
0°-90°	6860.8	74.8
90°-120°	1101.9	12.0
90°-150°	2006.9	21.9
90°-180°	2306.0	25.2
0°-180°	9166.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2680	2680	2680	2680	2680	
5°	2689	2664	2673	2663	2663	255
15°	2586	2561	2572	2562	2558	730
25°	2382	2354	2365	2344	2342	1095
35°	2057	2037	2043	2020	2018	1285
45°	1672	1661	1660	1644	1644	1288
55°	1240	1236	1224	1217	1214	1102
65°	733	719	702	698	700	731
75°	334	334	329	326	324	362
85°	78	84	85	85	85	91
90°	2	7	18	9	9	5
95°	23	90	299	154	105	25
105°	82	124	504	765	714	87
115°	146	177	404	805	919	144
125°	203	228	367	621	732	180
135°	242	266	356	501	568	187
145°	280	298	351	427	461	176
155°	317	326	351	386	397	146
165°	342	346	351	365	369	97
175°	356	356	354	358	358	34
180°	356	356	356	356	356	

TEST NUMBER: P563213

CATALOG NUMBER: SQ4-PP3-025U-075D-930-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2679.8	2679.8	2679.8	2679.8	2679.8
2.5°	2696.7	2674.7	2679.8	2675.8	2664.8
5°	2689.2	2664.0	2672.8	2663.4	2663.4
7.5°	2670.9	2643.3	2652.1	2642.7	2642.2
10°	2654.0	2626.4	2635.2	2625.8	2623.5
12.5°	2629.6	2602.0	2612.7	2601.4	2600.9
15°	2585.9	2560.6	2571.8	2562.3	2557.7
17.5°	2536.6	2509.0	2522.5	2509.3	2507.4
20°	2499.0	2471.4	2484.9	2466.1	2466.1
22.5°	2453.9	2426.3	2441.7	2417.2	2417.2
25°	2381.5	2354.0	2365.1	2343.9	2341.6
27.5°	2295.6	2268.5	2280.1	2256.1	2255.7
30°	2233.6	2208.3	2221.8	2195.9	2193.6
32.5°	2165.9	2142.5	2152.3	2126.4	2124.1
35°	2057.4	2036.8	2043.3	2019.8	2017.5
37.5°	1943.3	1922.2	1929.7	1909.4	1908.5
40°	1862.5	1848.7	1850.7	1834.2	1829.6
42.5°	1787.3	1771.7	1773.7	1757.2	1756.3
45°	1672.2	1660.8	1660.5	1644.1	1644.1
47.5°	1550.1	1541.4	1538.8	1525.2	1524.8
50°	1465.6	1458.7	1456.2	1444.4	1442.1
52.5°	1377.3	1374.0	1366.0	1356.1	1355.6
55°	1240.1	1235.5	1223.7	1216.6	1214.3
57.5°	1091.2	1082.0	1068.6	1058.3	1060.2
60°	984.1	974.9	955.9	951.2	951.2
62.5°	880.7	869.7	850.7	844.2	847.9
65°	732.8	719.0	702.2	697.6	699.9
67.5°	598.4	586.0	567.9	567.9	566.0
70°	512.0	505.1	490.9	490.9	490.9
72.5°	435.0	431.8	421.3	421.3	419.5
75°	333.5	333.5	328.8	326.4	324.1
77.5°	249.9	250.8	248.5	246.0	241.9
80°	197.3	201.9	199.6	197.2	194.9
82.5°	148.4	153.0	152.7	148.4	148.0
85°	77.5	84.4	84.6	84.6	84.6
87.5°	21.1	29.4	33.7	31.9	33.8
90°	2.3	6.7	18.2	9.1	9.1
92.5°	9.6	46.1	102.2	45.2	29.2
95°	22.8	89.7	298.7	154.0	104.9
97.5°	39.7	98.5	447.0	355.5	261.8
100°	52.5	106.0	492.6	499.2	387.7
102.5°	63.4	113.3	505.4	621.8	526.3
105°	82.1	124.5	504.0	765.1	713.8
107.5°	101.3	140.5	475.3	839.5	852.0
110°	114.0	149.7	451.5	858.7	912.2



TEST NUMBER: P563213

CATALOG NUMBER: SQ4-PP3-025U-075D-930-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	126.8	160.7	429.7	846.6	928.6
115°	146.0	177.2	403.7	805.3	919.1
117.5°	164.7	193.2	385.9	748.1	874.4
120°	175.6	202.4	378.6	709.7	832.4
122.5°	186.5	213.3	373.1	671.4	792.3
125°	203.0	227.5	367.2	620.6	732.0
127.5°	216.2	241.2	362.1	579.6	673.7
130°	223.5	250.2	360.3	553.9	640.8
132.5°	230.8	257.5	358.5	531.8	609.8
135°	241.7	266.3	355.8	501.0	567.9
137.5°	253.1	277.2	355.3	477.9	532.7
140°	262.3	284.6	353.5	459.6	510.8
142.5°	269.6	290.1	353.5	446.6	490.8
145°	280.5	298.3	351.2	427.2	460.7
147.5°	291.5	308.8	351.2	411.1	438.8
150°	298.7	314.4	351.2	401.9	424.2
152.5°	306.0	318.1	351.2	394.5	411.4
155°	317.0	325.9	351.2	385.7	396.8
157.5°	325.2	333.7	351.2	377.8	385.9
160°	330.7	337.4	351.2	374.1	378.6
162.5°	336.1	341.1	351.2	370.5	374.9
165°	342.1	346.5	351.2	365.0	369.4
167.5°	347.6	349.8	353.5	362.6	364.4
170°	351.2	353.4	353.5	362.6	362.6
172.5°	353.0	353.5	353.5	360.7	359.0
175°	355.8	355.8	353.5	358.0	358.0
177.5°	355.8	355.8	353.9	357.5	355.8
180°	355.8	355.8	355.8	355.8	355.8

(END OF REPORT)