

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: P563189

Luminaire Tested: **SQ4-PP3-025U-050D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563189  
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-050D-930-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

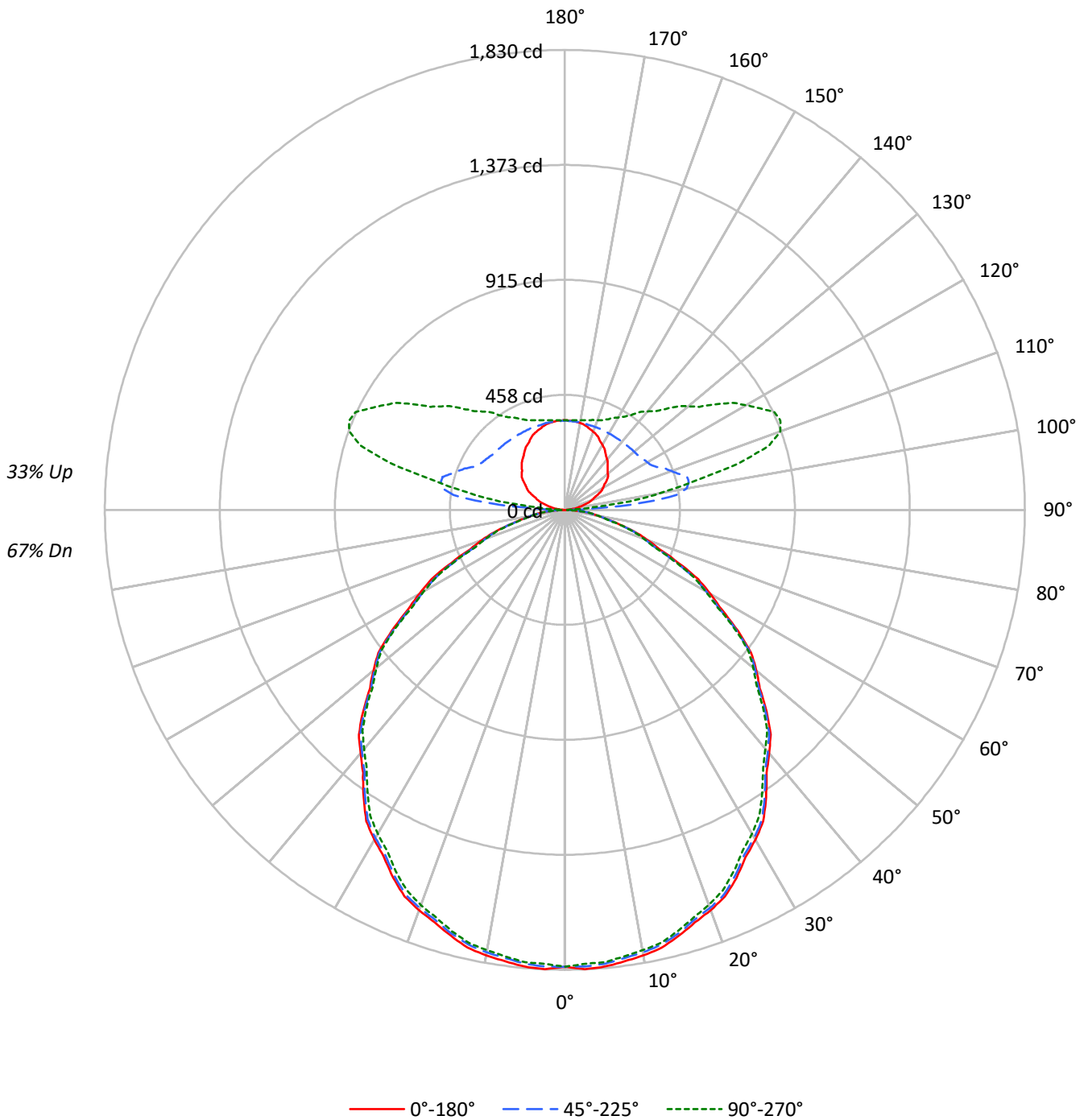
Lumens per Lamp: N/A  
Luminaire Lumens: 6961.4 lumens  
Efficiency: N/A  
Efficacy: 101.2 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 68.8  
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: P563189  
CATALOG NUMBER: SQ4-PP3-025U-050D-930-1D-UNV-STD-W-12

### Luminous Intensity Polar Plot





TEST NUMBER: P563189

CATALOG NUMBER: SQ4-PP3-025U-050D-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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	67				
1	102	98	94	90	96	92	89	86	82	79	77	72	71	69	64	62	61	57				
2	93	85	79	74	87	81	75	71	72	68	64	64	61	58	56	54	52	48				
3	85	75	68	62	80	71	65	59	64	58	54	57	53	49	50	47	44	41				
4	78	67	59	53	73	63	56	51	57	51	46	51	46	42	45	41	38	35				
5	72	60	51	45	67	57	49	44	51	45	40	46	41	37	41	37	33	31				
6	66	54	45	39	62	51	43	38	46	40	35	41	36	32	37	33	30	27				
7	61	49	40	35	57	46	39	34	42	36	31	38	32	29	34	29	26	24				
8	57	44	36	31	53	42	35	30	38	32	28	34	29	26	31	27	24	21				
9	53	40	33	28	50	39	32	27	35	29	25	32	27	23	29	24	21	19				
10	50	37	30	25	47	36	29	24	32	27	23	29	24	21	26	22	19	17				

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

	0°	45°	90°
0°	5592	5592	5592
5°	5633	5598	5578
10°	5623	5583	5559
15°	5586	5556	5525
20°	5549	5518	5476
25°	5483	5445	5391
30°	5381	5353	5285
35°	5241	5205	5139
40°	5073	5041	4984
45°	4935	4900	4852
50°	4758	4727	4681
55°	4511	4451	4417
60°	4107	3989	3970
65°	3618	3467	3456
70°	3124	2994	2994
75°	2689	2651	2613
80°	2371	2398	2343
85°	1856	2025	2025



TEST NUMBER: P563189

CATALOG NUMBER: SQ4-PP3-025U-050D-930-1D-UNV-STD-W-12

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.9	2.5
10°-20°	490.9	7.1
20°-30°	735.3	10.6
30°-40°	862.5	12.4
40°-50°	865.2	12.4
50°-60°	738.1	10.6
60°-70°	481.4	6.9
70°-80°	241.5	3.5
80°-90°	68.7	1.0
90°-100°	173.4	2.5
100°-110°	455.8	6.5
110°-120°	472.7	6.8
120°-130°	379.1	5.4
130°-140°	297.5	4.3
140°-150°	228.3	3.3
150°-160°	164.5	2.4
160°-170°	100.6	1.4
170°-180°	34.0	0.5
0°-30°	1398.2	20.1
0°-40°	2260.6	32.5
0°-60°	3863.9	55.5
0°-90°	4655.5	66.9
90°-120°	1101.9	15.8
90°-150°	2006.9	28.8
90°-180°	2306.0	33.1
0°-180°	6961.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1818	1818	1818	1818	1818	
5°	1825	1807	1813	1807	1807	173
15°	1754	1737	1745	1738	1735	495
25°	1616	1597	1605	1590	1589	743
35°	1396	1382	1386	1370	1369	872
45°	1135	1127	1127	1116	1116	874
55°	841	838	830	825	824	748
65°	497	488	476	473	475	496
75°	226	226	223	222	220	246
85°	53	57	57	57	57	62
90°	2	7	18	9	9	4
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: P563189

CATALOG NUMBER: SQ4-PP3-025U-050D-930-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1818.2	1818.2	1818.2	1818.2	1818.2
2.5°	1829.7	1814.7	1818.2	1815.5	1808.0
5°	1824.6	1807.4	1813.4	1807.0	1807.0
7.5°	1812.1	1793.5	1799.4	1793.0	1792.7
10°	1800.7	1782.0	1787.9	1781.5	1780.0
12.5°	1784.1	1765.4	1772.6	1765.0	1764.7
15°	1754.5	1737.3	1744.9	1738.5	1735.3
17.5°	1721.0	1702.3	1711.4	1702.5	1701.2
20°	1695.5	1676.8	1685.9	1673.2	1673.2
22.5°	1664.9	1646.2	1656.6	1640.0	1640.0
25°	1615.8	1597.1	1604.7	1590.3	1588.7
27.5°	1557.5	1539.1	1547.0	1530.7	1530.4
30°	1515.4	1498.3	1507.5	1489.9	1488.3
32.5°	1469.5	1453.6	1460.3	1442.7	1441.2
35°	1395.9	1381.9	1386.4	1370.4	1368.8
37.5°	1318.5	1304.1	1309.2	1295.5	1294.9
40°	1263.7	1254.3	1255.7	1244.5	1241.4
42.5°	1212.7	1202.1	1203.4	1192.3	1191.6
45°	1134.6	1126.8	1126.6	1115.5	1115.5
47.5°	1051.7	1045.8	1044.1	1034.8	1034.5
50°	994.4	989.7	988.0	980.0	978.4
52.5°	934.4	932.3	926.8	920.1	919.8
55°	841.4	838.3	830.2	825.4	823.8
57.5°	740.3	734.1	725.1	718.1	719.3
60°	667.7	661.5	648.6	645.4	645.4
62.5°	597.6	590.1	577.2	572.8	575.3
65°	497.2	487.8	476.5	473.3	474.9
67.5°	406.0	397.6	385.3	385.3	384.0
70°	347.4	342.7	333.0	333.0	333.0
72.5°	295.1	292.9	285.9	285.8	284.6
75°	226.3	226.3	223.1	221.5	219.9
77.5°	169.6	170.2	168.6	166.9	164.1
80°	133.9	137.0	135.4	133.8	132.3
82.5°	100.7	103.8	103.6	100.7	100.4
85°	52.6	57.3	57.4	57.4	57.4
87.5°	14.5	20.4	24.0	22.2	23.5
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: P563189

CATALOG NUMBER: SQ4-PP3-025U-050D-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)