

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: P563227

Luminaire Tested: **SQ4-PP3-025U-100D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563227  
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-100D-830-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

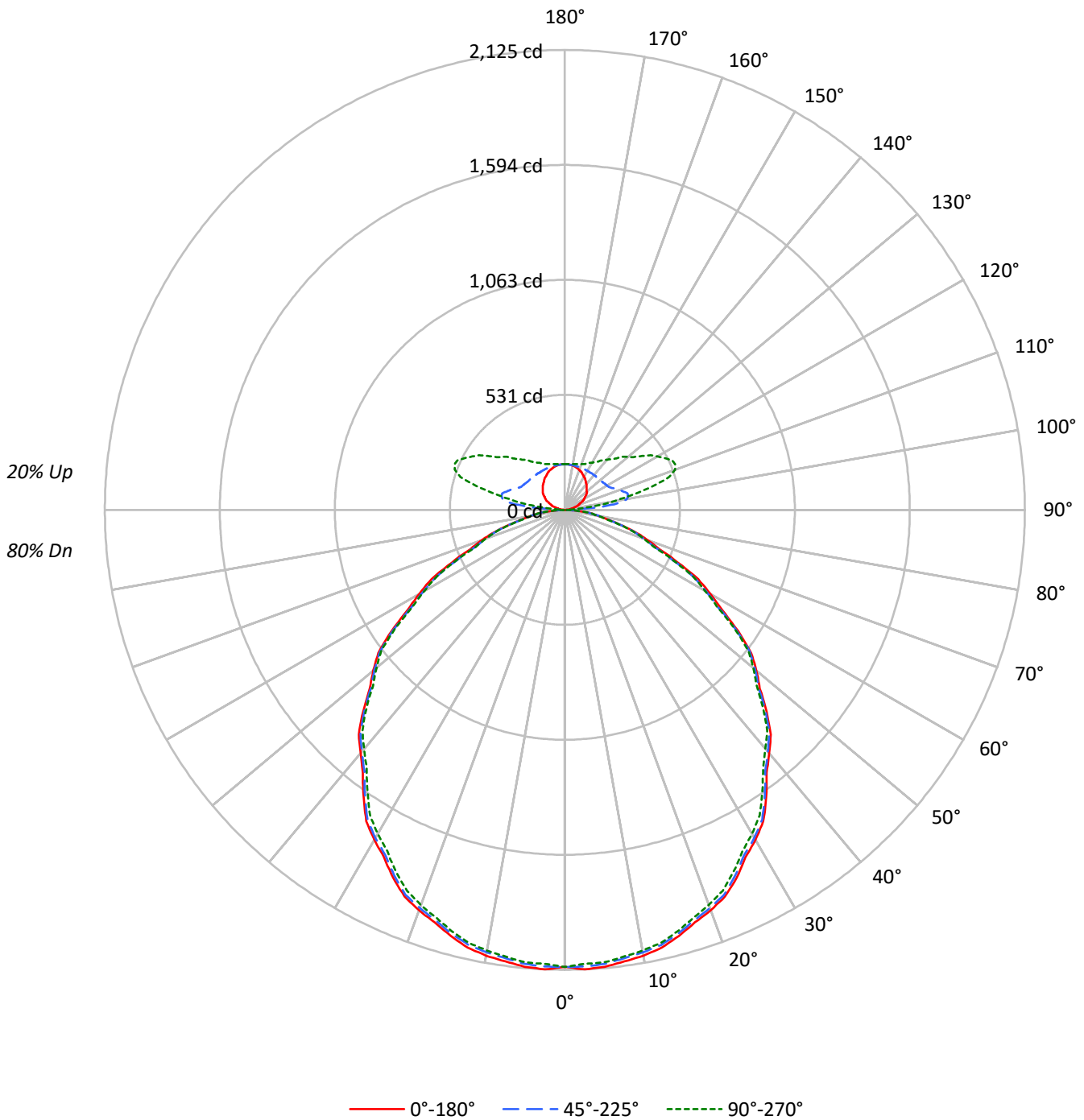
Lumens per Lamp: N/A  
Luminaire Lumens: 6773.7 lumens  
Efficiency: N/A  
Efficacy: 106.7 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 63.5  
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: P563227  
CATALOG NUMBER: SQ4-PP3-025U-100D-830-1D-UNV-STD-W-6

### Luminous Intensity Polar Plot





TEST NUMBER: P563227

CATALOG NUMBER: SQ4-PP3-025U-100D-830-1D-UNV-STD-W-6

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									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	50	30	10	50	30	10	50	30	10	0																
RCR																																														
0	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	80																												
1	105	100	96	93	100	96	93	90	88	86	83	81	79	77	74	73	71	68																												
2	96	88	82	76	91	85	79	74	78	73	69	72	68	65	66	63	60	57																												
3	88	78	70	64	83	75	68	62	69	63	59	64	59	55	59	55	52	49																												
4	80	69	61	55	76	66	59	53	61	55	50	57	52	47	52	48	45	42																												
5	74	62	53	47	70	59	52	46	55	49	44	51	46	41	47	43	39	37																												
6	68	56	47	41	65	54	46	40	50	43	38	46	41	36	43	38	35	32																												
7	63	50	42	36	60	49	41	35	45	39	34	42	37	32	39	34	31	29																												
8	59	46	38	32	56	44	37	32	41	35	30	39	33	29	36	31	28	26																												
9	55	42	34	29	52	41	33	28	38	32	27	36	30	26	33	29	25	23																												
10	51	39	31	26	49	38	30	26	35	29	25	33	28	24	31	26	23	21																												

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

	0°	45°	90°
0°	12989	12989	12989
5°	13085	13004	12959
10°	13062	12970	12912
15°	12976	12905	12834
20°	12890	12817	12720
25°	12737	12649	12523
30°	12501	12435	12278
35°	12174	12091	11937
40°	11785	11710	11577
45°	11463	11382	11270
50°	11051	10980	10874
55°	10479	10341	10261
60°	9540	9267	9221
65°	8405	8054	8027
70°	7256	6956	6956
75°	6245	6157	6070
80°	5508	5572	5441
85°	4312	4700	4700



TEST NUMBER: P563227

CATALOG NUMBER: SQ4-PP3-025U-100D-830-1D-UNV-STD-W-6

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	199.7	2.9
10°-20°	570.2	8.4
20°-30°	854.1	12.6
30°-40°	1001.8	14.8
40°-50°	1004.9	14.8
50°-60°	857.2	12.7
60°-70°	559.1	8.3
70°-80°	280.5	4.1
80°-90°	78.8	1.2
90°-100°	102.8	1.5
100°-110°	270.3	4.0
110°-120°	280.3	4.1
120°-130°	224.9	3.3
130°-140°	176.4	2.6
140°-150°	135.4	2.0
150°-160°	97.5	1.4
160°-170°	59.7	0.9
170°-180°	20.2	0.3
0°-30°	1623.9	24.0
0°-40°	2625.7	38.8
0°-60°	4487.8	66.3
0°-90°	5406.1	79.8
90°-120°	653.5	9.6
90°-150°	1190.2	17.6
90°-180°	1368.0	20.2
0°-180°	6773.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2112	2112	2112	2112	2112	
5°	2119	2099	2106	2099	2099	201
15°	2038	2018	2027	2019	2016	575
25°	1877	1855	1864	1847	1845	863
35°	1621	1605	1610	1592	1590	1013
45°	1318	1309	1308	1296	1296	1015
55°	977	974	964	959	957	868
65°	578	567	553	550	552	576
75°	263	263	259	257	255	285
85°	61	66	67	67	67	72
90°	1	4	11	5	5	3
95°	14	53	177	91	62	15
105°	49	74	299	454	423	52
115°	87	105	239	478	545	85
125°	120	135	218	368	434	107
135°	143	158	211	297	337	111
145°	166	177	208	253	273	104
155°	188	193	208	229	235	86
165°	203	206	208	216	219	57
175°	211	211	210	212	212	20
180°	211	211	211	211	211	

TEST NUMBER: P563227

CATALOG NUMBER: SQ4-PP3-025U-100D-830-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2111.8	2111.8	2111.8	2111.8	2111.8
2.5°	2125.1	2107.7	2111.8	2108.6	2099.9
5°	2119.2	2099.3	2106.2	2098.8	2098.8
7.5°	2104.7	2083.0	2089.9	2082.5	2082.2
10°	2091.4	2069.7	2076.6	2069.2	2067.4
12.5°	2072.2	2050.4	2058.8	2049.9	2049.6
15°	2037.7	2017.8	2026.6	2019.1	2015.5
17.5°	1998.9	1977.2	1987.8	1977.4	1975.9
20°	1969.3	1947.5	1958.2	1943.3	1943.3
22.5°	1933.7	1912.0	1924.1	1904.9	1904.9
25°	1876.7	1855.0	1863.8	1847.1	1845.3
27.5°	1809.0	1787.6	1796.8	1777.9	1777.5
30°	1760.1	1740.2	1750.9	1730.5	1728.7
32.5°	1706.8	1688.4	1696.1	1675.7	1673.9
35°	1621.3	1605.0	1610.2	1591.7	1589.8
37.5°	1531.4	1514.7	1520.6	1504.7	1504.0
40°	1467.7	1456.8	1458.4	1445.4	1441.8
42.5°	1408.5	1396.2	1397.7	1384.8	1384.0
45°	1317.8	1308.7	1308.5	1295.6	1295.6
47.5°	1221.5	1214.7	1212.6	1201.9	1201.5
50°	1154.9	1149.5	1147.5	1138.2	1136.4
52.5°	1085.3	1082.8	1076.4	1068.6	1068.3
55°	977.2	973.6	964.3	958.7	956.9
57.5°	859.9	852.6	842.1	834.0	835.5
60°	775.5	768.2	753.3	749.6	749.6
62.5°	694.1	685.4	670.4	665.2	668.1
65°	577.5	566.6	553.4	549.7	551.5
67.5°	471.6	461.8	447.5	447.5	446.0
70°	403.5	398.0	386.8	386.8	386.8
72.5°	342.8	340.2	332.0	332.0	330.6
75°	262.8	262.8	259.1	257.2	255.4
77.5°	196.9	197.6	195.8	193.9	190.6
80°	155.5	159.1	157.3	155.4	153.6
82.5°	117.0	120.6	120.3	117.0	116.6
85°	61.1	66.5	66.6	66.6	66.6
87.5°	16.6	22.9	25.9	24.8	26.3
90°	1.4	4.0	10.8	5.4	5.4
92.5°	5.7	27.4	60.6	26.8	17.3
95°	13.5	53.2	177.2	91.3	62.2
97.5°	23.5	58.4	265.1	210.8	155.3
100°	31.1	62.8	292.1	296.1	229.9
102.5°	37.6	67.2	299.7	368.8	312.2
105°	48.7	73.8	298.9	453.8	423.3
107.5°	60.1	83.3	281.9	497.9	505.3
110°	67.6	88.8	267.8	509.3	541.0



TEST NUMBER: P563227

CATALOG NUMBER: SQ4-PP3-025U-100D-830-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	75.2	95.3	254.8	502.1	550.8
115°	86.6	105.1	239.4	477.6	545.1
117.5°	97.7	114.6	228.8	443.7	518.6
120°	104.1	120.0	224.5	420.9	493.7
122.5°	110.6	126.5	221.3	398.2	469.9
125°	120.4	134.9	217.8	368.0	434.2
127.5°	128.2	143.0	214.8	343.7	399.5
130°	132.5	148.4	213.7	328.5	380.1
132.5°	136.9	152.7	212.6	315.4	361.7
135°	143.4	157.9	211.0	297.1	336.8
137.5°	150.1	164.4	210.7	283.4	316.0
140°	155.5	168.8	209.6	272.6	303.0
142.5°	159.9	172.0	209.6	264.9	291.1
145°	166.4	176.9	208.3	253.4	273.2
147.5°	172.9	183.2	208.3	243.8	260.2
150°	177.2	186.4	208.3	238.3	251.6
152.5°	181.5	188.7	208.3	233.9	244.0
155°	188.0	193.3	208.3	228.7	235.3
157.5°	192.9	197.9	208.3	224.1	228.8
160°	196.1	200.1	208.3	221.9	224.5
162.5°	199.4	202.3	208.3	219.7	222.4
165°	202.9	205.5	208.3	216.5	219.1
167.5°	206.1	207.4	209.6	215.1	216.1
170°	208.3	209.6	209.6	215.1	215.1
172.5°	209.4	209.6	209.6	213.9	212.9
175°	211.0	211.0	209.6	212.3	212.3
177.5°	211.0	211.0	209.9	212.1	211.0
180°	211.0	211.0	211.0	211.0	211.0

(END OF REPORT)