

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: P563938

Luminaire Tested: **SQ4-PR1-025U-125D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563938  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PR1-025U-125D-935-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

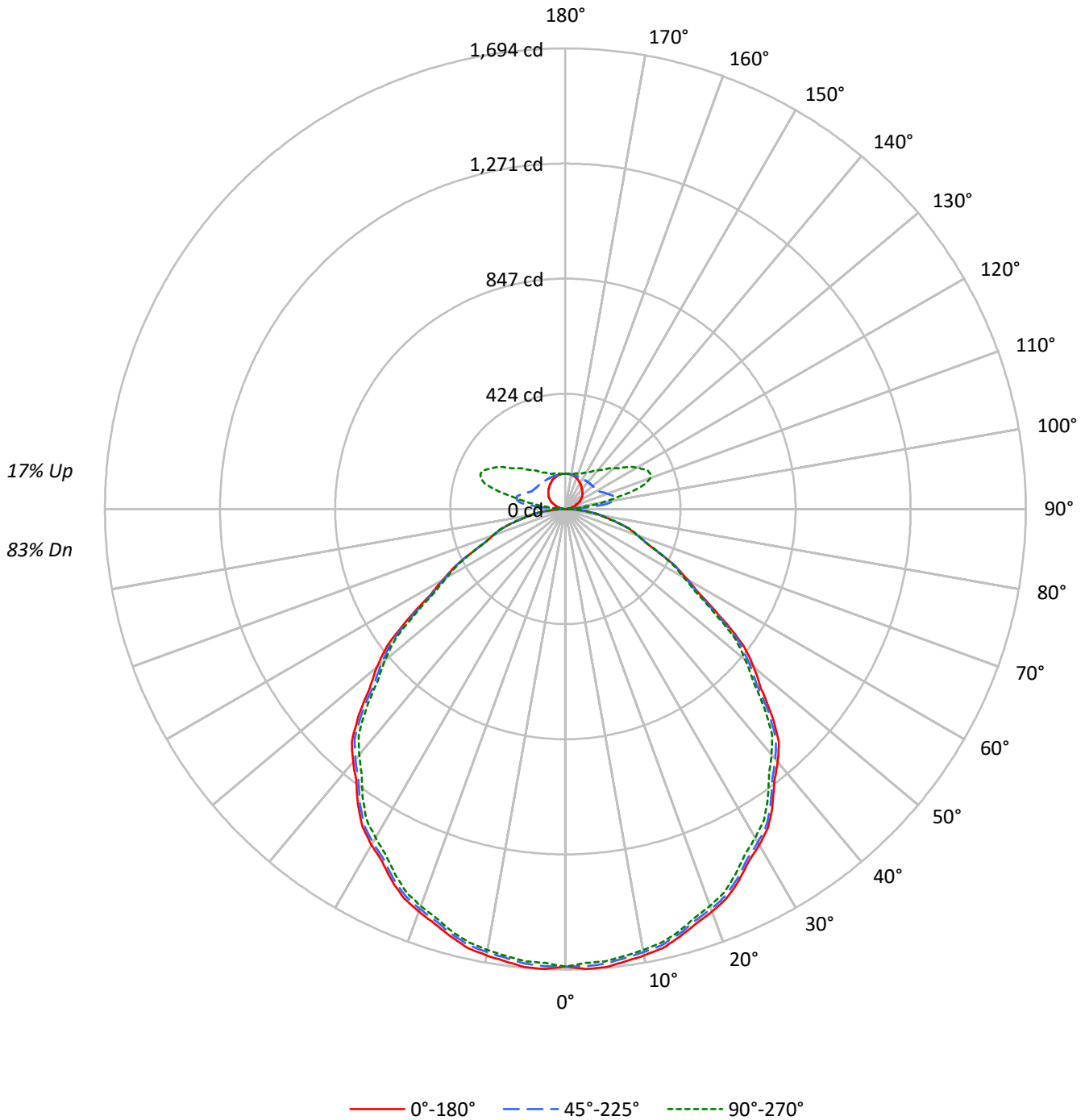
Lumens per Lamp: N/A  
Luminaire Lumens: 5047.9 lumens  
Efficiency: N/A  
Efficacy: 102.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 49.5  
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: P563938  
CATALOG NUMBER: SQ4-PR1-025U-125D-935-1D-UNV-STD-W-4

### Luminous Intensity Polar Plot





TEST NUMBER: P563938

CATALOG NUMBER: SQ4-PR1-025U-125D-935-1D-UNV-STD-W-4

**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	115	115	115	115	110	110	110	110	102	102	102	94	94	94	87	87	87	83				
1	106	101	97	94	101	97	94	91	90	87	85	84	81	79	77	76	74	71				
2	97	89	83	78	93	86	80	75	80	75	71	74	70	67	69	66	63	60				
3	89	79	71	65	85	76	69	64	71	65	60	66	61	57	61	58	54	52				
4	81	70	62	56	78	68	60	55	63	57	52	59	54	50	55	51	47	45				
5	75	63	55	48	72	61	53	47	57	50	45	53	48	43	50	45	41	39				
6	69	57	48	42	66	55	47	42	52	45	40	48	43	38	45	41	37	34				
7	64	52	43	37	62	50	42	37	47	40	35	44	38	34	42	37	33	31				
8	60	47	39	33	57	46	38	33	43	36	32	41	35	31	38	33	29	27				
9	56	43	35	30	54	42	35	30	40	33	29	37	32	28	35	30	27	25				
10	52	40	32	27	50	39	32	27	37	30	26	35	29	25	33	28	24	22				

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

	0°	45°	90°
0°	15530	15530	15530
5°	15669	15549	15468
10°	15620	15511	15430
15°	15551	15455	15371
20°	15473	15374	15260
25°	15365	15261	15084
30°	15198	15091	14874
35°	14974	14844	14631
40°	14632	14476	14213
45°	14037	13790	13507
50°	12986	12673	12423
55°	11334	11078	10845
60°	9551	9470	9283
65°	8261	8294	8230
70°	7588	7626	7626
75°	7286	7286	7340
80°	6854	6934	6854
85°	5526	6140	6140



TEST NUMBER: P563938

CATALOG NUMBER: SQ4-PR1-025U-125D-935-1D-UNV-STD-W-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.2	3.2
10°-20°	455.4	9.0
20°-30°	686.9	13.6
30°-40°	818.5	16.2
40°-50°	806.9	16.0
50°-60°	616.7	12.2
60°-70°	381.6	7.6
70°-80°	216.8	4.3
80°-90°	66.6	1.3
90°-100°	63.1	1.3
100°-110°	165.9	3.3
110°-120°	172.0	3.4
120°-130°	138.0	2.7
130°-140°	108.3	2.1
140°-150°	83.1	1.6
150°-160°	59.9	1.2
160°-170°	36.6	0.7
170°-180°	12.4	0.2
0°-30°	1301.5	25.8
0°-40°	2119.9	42.0
0°-60°	3543.6	70.2
0°-90°	4208.6	83.4
90°-120°	401.1	7.9
90°-150°	730.4	14.5
90°-180°	839.0	16.6
0°-180°	5047.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1683	1683	1683	1683	1683	
5°	1692	1674	1679	1673	1670	161
15°	1628	1611	1618	1612	1609	459
25°	1509	1491	1499	1483	1482	695
35°	1330	1314	1318	1300	1299	830
45°	1076	1062	1057	1038	1035	824
55°	705	693	689	677	674	631
65°	378	376	380	377	377	383
75°	204	204	204	206	206	216
85°	52	55	58	58	58	61
90°	1	2	7	3	3	3
95°	8	33	109	56	38	9
105°	30	45	183	278	260	32
115°	53	64	147	293	334	52
125°	74	83	134	226	266	66
135°	88	97	130	182	207	68
145°	102	109	128	156	168	64
155°	115	119	128	140	144	53
165°	124	126	128	133	134	35
175°	130	130	129	130	130	12
180°	130	130	130	130	130	

TEST NUMBER: P563938

CATALOG NUMBER: SQ4-PR1-025U-125D-935-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1683.2	1683.2	1683.2	1683.2	1683.2
2.5°	1693.7	1678.9	1683.2	1679.6	1671.6
5°	1691.9	1673.5	1678.9	1673.0	1670.2
7.5°	1678.9	1660.7	1666.1	1660.3	1658.6
10°	1667.3	1650.3	1655.7	1649.8	1647.0
12.5°	1654.5	1636.4	1642.9	1635.9	1633.1
15°	1628.1	1611.1	1618.0	1612.1	1609.3
17.5°	1599.1	1581.0	1587.8	1581.1	1577.4
20°	1575.9	1558.9	1565.8	1555.6	1554.2
22.5°	1550.4	1533.4	1540.3	1526.6	1526.4
25°	1509.3	1490.8	1499.1	1483.1	1481.7
27.5°	1460.3	1443.2	1450.1	1433.8	1432.1
30°	1426.6	1409.6	1416.5	1399.0	1396.2
32.5°	1388.3	1372.5	1378.2	1360.8	1359.1
35°	1329.5	1313.9	1317.9	1300.4	1299.0
37.5°	1262.5	1248.3	1250.6	1231.4	1230.0
40°	1214.9	1200.8	1201.9	1181.6	1180.1
42.5°	1162.7	1148.6	1147.4	1127.1	1125.6
45°	1075.8	1061.6	1056.9	1038.0	1035.2
47.5°	976.6	962.4	953.7	938.3	936.3
50°	904.7	890.5	882.9	869.8	865.5
52.5°	827.0	812.8	806.4	794.4	790.1
55°	704.6	693.3	688.7	677.0	674.2
57.5°	588.3	580.7	579.3	568.0	566.9
60°	517.6	513.3	513.2	503.1	503.1
62.5°	457.3	454.2	456.4	449.7	448.6
65°	378.4	375.6	379.9	377.0	377.0
67.5°	316.1	316.1	318.7	317.5	317.5
70°	281.3	281.3	282.7	282.7	282.7
72.5°	249.9	248.8	252.6	252.5	251.4
75°	204.4	204.4	204.4	205.9	205.9
77.5°	159.2	159.5	160.6	160.3	159.2
80°	129.0	130.5	130.5	129.0	129.0
82.5°	98.9	100.3	100.3	100.0	98.9
85°	52.2	55.0	58.0	58.0	58.0
87.5°	15.2	20.1	24.5	23.8	22.7
90°	0.8	2.5	6.6	3.3	3.3
92.5°	3.5	16.8	37.2	16.5	10.6
95°	8.3	32.6	108.7	56.0	38.2
97.5°	14.4	35.9	162.7	129.4	95.3
100°	19.1	38.6	179.3	181.7	141.1
102.5°	23.1	41.3	183.9	226.3	191.6
105°	29.9	45.3	183.4	278.5	259.8
107.5°	36.9	51.1	173.0	305.6	310.1
110°	41.5	54.5	164.3	312.5	332.0

TEST NUMBER: P563938

CATALOG NUMBER: SQ4-PR1-025U-125D-935-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	46.2	58.5	156.4	308.1	338.0
115°	53.1	64.5	146.9	293.1	334.5
117.5°	59.9	70.3	140.4	272.3	318.2
120°	63.9	73.7	137.8	258.3	303.0
122.5°	67.9	77.6	135.8	244.4	288.4
125°	73.9	82.8	133.6	225.9	266.4
127.5°	78.7	87.8	131.8	210.9	245.2
130°	81.3	91.1	131.1	201.6	233.2
132.5°	84.0	93.7	130.5	193.5	222.0
135°	88.0	96.9	129.5	182.3	206.7
137.5°	92.1	100.9	129.3	173.9	193.9
140°	95.5	103.6	128.7	167.3	185.9
142.5°	98.1	105.6	128.7	162.6	178.6
145°	102.1	108.6	127.8	155.5	167.7
147.5°	106.1	112.4	127.8	149.6	159.7
150°	108.7	114.4	127.8	146.3	154.4
152.5°	111.4	115.8	127.8	143.6	149.7
155°	115.4	118.6	127.8	140.4	144.4
157.5°	118.4	121.4	127.8	137.5	140.4
160°	120.4	122.8	127.8	136.2	137.8
162.5°	122.3	124.1	127.8	134.8	136.5
165°	124.5	126.1	127.8	132.8	134.5
167.5°	126.5	127.3	128.7	132.0	132.6
170°	127.8	128.6	128.7	132.0	132.0
172.5°	128.5	128.7	128.7	131.3	130.6
175°	129.5	129.5	128.7	130.3	130.3
177.5°	129.5	129.5	128.8	130.1	129.5
180°	129.5	129.5	129.5	129.5	129.5

(END OF REPORT)