

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: P563849

Luminaire Tested: **SQ4-PR1-025U-050D-830-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563849  
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-050D-830-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

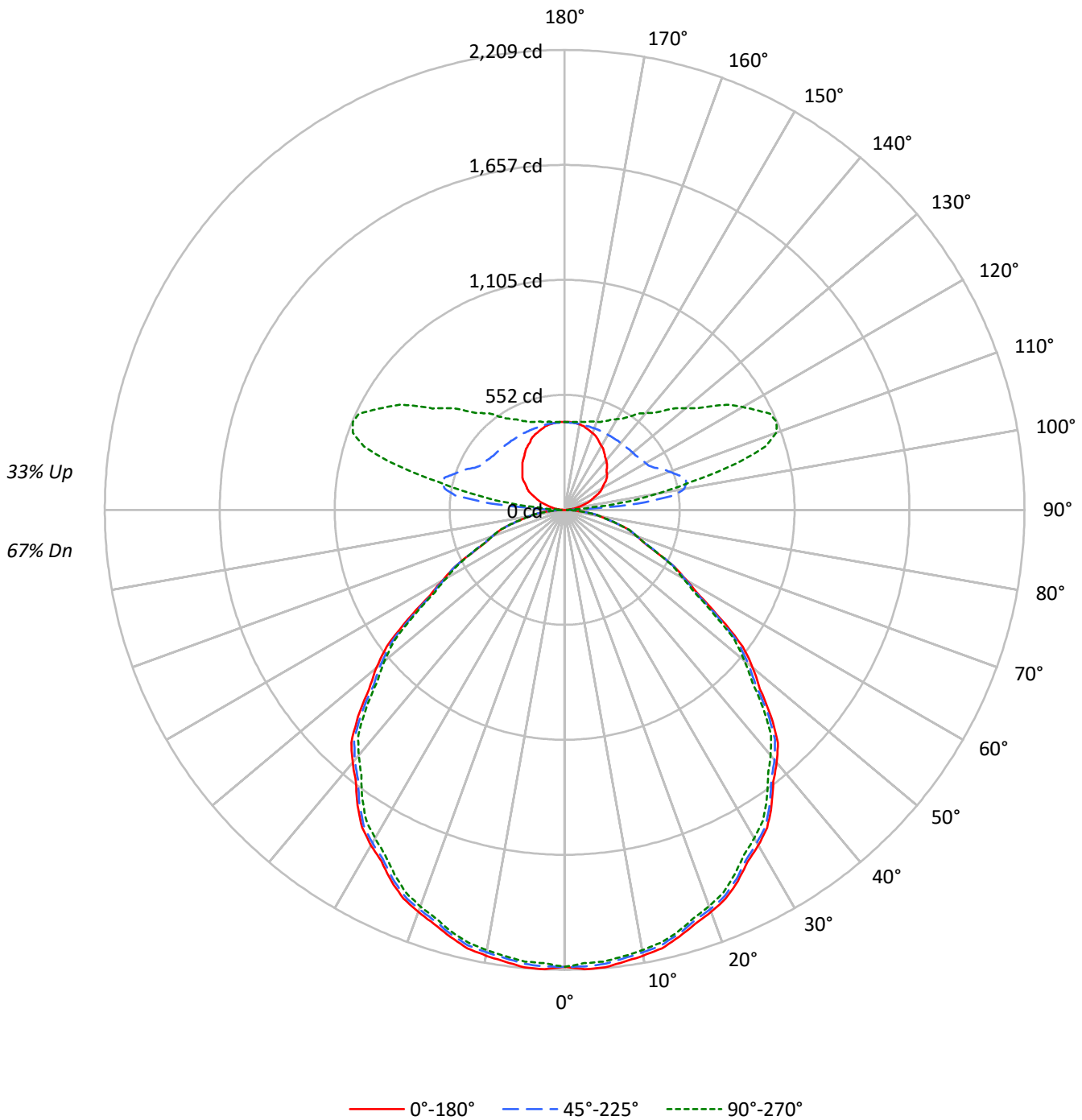
Lumens per Lamp: N/A  
Luminaire Lumens: 8224.7 lumens  
Efficiency: N/A  
Efficacy: 119.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Direct

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: P563849  
CATALOG NUMBER: SQ4-PR1-025U-050D-830-1D-UNV-STD-W-12

### Luminous Intensity Polar Plot





TEST NUMBER: P563849

CATALOG NUMBER: SQ4-PR1-025U-050D-830-1D-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	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	86	80	74	88	81	76	71	72	68	64	64	61	58	57	54	52	48
3	85	76	68	63	80	72	65	60	64	59	55	57	53	50	51	47	45	41
4	78	67	59	53	73	64	57	51	57	51	47	51	47	43	45	42	39	36
5	72	60	52	46	68	57	50	44	51	45	41	46	41	37	41	37	34	31
6	66	54	46	40	62	52	44	39	46	40	36	42	37	33	37	33	30	28
7	62	49	41	35	58	47	39	34	42	36	32	38	33	29	34	30	27	24
8	57	45	37	31	54	43	35	30	39	33	28	35	30	26	31	27	24	22
9	53	41	33	28	50	39	32	27	35	30	25	32	27	24	29	25	22	20
10	50	38	30	25	47	36	29	25	33	27	23	30	25	21	27	23	20	18

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

	0°	45°	90°
0°	6751	6751	6751
5°	6811	6759	6724
10°	6790	6743	6707
15°	6760	6718	6682
20°	6726	6683	6633
25°	6678	6634	6557
30°	6607	6559	6466
35°	6509	6452	6360
40°	6360	6292	6179
45°	6101	5995	5871
50°	5644	5509	5400
55°	4926	4815	4714
60°	4151	4117	4035
65°	3590	3604	3577
70°	3298	3315	3315
75°	3168	3168	3190
80°	2981	3014	2981
85°	2403	2668	2668



TEST NUMBER: P563849

CATALOG NUMBER: SQ4-PR1-025U-050D-830-1D-UNV-STD-W-12

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	207.6	2.5
10°-20°	593.9	7.2
20°-30°	895.8	10.9
30°-40°	1067.3	13.0
40°-50°	1052.3	12.8
50°-60°	804.2	9.8
60°-70°	497.7	6.1
70°-80°	282.7	3.4
80°-90°	88.2	1.1
90°-100°	205.7	2.5
100°-110°	540.7	6.6
110°-120°	560.7	6.8
120°-130°	449.7	5.5
130°-140°	352.9	4.3
140°-150°	270.8	3.3
150°-160°	195.1	2.4
160°-170°	119.3	1.5
170°-180°	40.3	0.5
0°-30°	1697.2	20.6
0°-40°	2764.5	33.6
0°-60°	4620.9	56.2
0°-90°	5489.5	66.7
90°-120°	1307.0	15.9
90°-150°	2380.4	28.9
90°-180°	2735.0	33.3
0°-180°	8224.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2195	2195	2195	2195	2195	
5°	2206	2182	2189	2182	2178	209
15°	2123	2101	2110	2102	2099	599
25°	1968	1944	1955	1934	1932	906
35°	1734	1713	1719	1696	1694	1082
45°	1403	1384	1378	1354	1350	1075
55°	919	904	898	883	879	823
65°	493	490	495	492	492	500
75°	267	267	267	268	268	282
85°	68	72	76	76	76	79
90°	3	8	22	11	11	5
95°	27	106	354	183	124	30
105°	97	148	598	908	847	103
115°	173	210	479	955	1090	171
125°	241	270	436	736	868	214
135°	287	316	422	594	674	222
145°	333	354	417	507	546	208
155°	376	387	417	458	471	173
165°	406	411	417	433	438	115
175°	422	422	419	425	425	40
180°	422	422	422	422	422	



TEST NUMBER: P563849

CATALOG NUMBER: SQ4-PR1-025U-050D-830-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2195.0	2195.0	2195.0	2195.0	2195.0
2.5°	2208.6	2189.4	2195.0	2190.2	2179.9
5°	2206.3	2182.3	2189.3	2181.7	2178.0
7.5°	2189.3	2165.7	2172.7	2165.1	2162.9
10°	2174.2	2152.0	2159.1	2151.4	2147.7
12.5°	2157.6	2133.9	2142.4	2133.3	2129.6
15°	2123.2	2101.0	2109.9	2102.3	2098.6
17.5°	2085.3	2061.7	2070.6	2061.8	2057.0
20°	2055.1	2032.9	2041.9	2028.6	2026.7
22.5°	2021.8	1999.6	2008.6	1990.8	1990.4
25°	1968.1	1944.1	1954.9	1934.1	1932.2
27.5°	1904.2	1882.0	1891.0	1869.8	1867.5
30°	1860.4	1838.2	1847.1	1824.4	1820.7
32.5°	1810.4	1789.7	1797.2	1774.5	1772.3
35°	1733.7	1713.4	1718.6	1695.8	1694.0
37.5°	1646.3	1627.9	1630.8	1605.8	1604.0
40°	1584.3	1565.8	1567.3	1540.8	1539.0
42.5°	1516.3	1497.8	1496.2	1469.7	1467.9
45°	1402.8	1384.3	1378.3	1353.6	1349.9
47.5°	1273.5	1255.0	1243.6	1223.5	1221.0
50°	1179.7	1161.3	1151.4	1134.2	1128.7
52.5°	1078.4	1059.9	1051.6	1035.9	1030.4
55°	918.8	904.0	898.0	882.8	879.1
57.5°	767.2	757.2	755.5	740.7	739.2
60°	674.9	669.4	669.3	656.0	656.0
62.5°	596.3	592.2	595.2	586.4	585.0
65°	493.4	489.8	495.3	491.6	491.6
67.5°	412.2	412.2	415.6	414.0	414.0
70°	366.8	366.8	368.7	368.7	368.7
72.5°	325.9	324.5	329.3	329.3	327.8
75°	266.6	266.6	266.6	268.5	268.5
77.5°	207.6	208.0	209.5	209.1	207.6
80°	168.3	170.1	170.2	168.3	168.3
82.5°	128.9	130.8	130.8	130.4	128.9
85°	68.1	71.8	75.6	75.6	75.6
87.5°	20.2	27.2	34.6	32.4	30.9
90°	2.7	8.0	21.6	10.8	10.8
92.5°	11.4	54.7	121.2	53.7	34.6
95°	27.1	106.4	354.4	182.6	124.4
97.5°	47.1	116.9	530.2	421.6	310.5
100°	62.2	125.7	584.3	592.1	459.9
102.5°	75.2	134.4	599.4	737.5	624.3
105°	97.4	147.6	597.8	907.5	846.7
107.5°	120.1	166.7	563.7	995.8	1010.6
110°	135.3	177.6	535.6	1018.5	1082.0

TEST NUMBER: P563849

CATALOG NUMBER: SQ4-PR1-025U-050D-830-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	150.4	190.6	509.6	1004.2	1101.5
115°	173.1	210.2	478.8	955.2	1090.1
117.5°	195.3	229.2	457.7	887.4	1037.1
120°	208.3	240.0	449.0	841.9	987.3
122.5°	221.3	253.0	442.5	796.4	939.7
125°	240.8	269.8	435.5	736.1	868.3
127.5°	256.4	286.1	429.6	687.5	799.1
130°	265.1	296.8	427.4	657.0	760.1
132.5°	273.8	305.5	425.2	630.8	723.3
135°	286.7	315.8	422.0	594.2	673.6
137.5°	300.3	328.8	421.4	566.8	631.9
140°	311.1	337.5	419.3	545.1	605.9
142.5°	319.7	344.1	419.3	529.8	582.1
145°	332.7	353.9	416.6	506.7	546.4
147.5°	345.7	366.3	416.6	487.7	520.5
150°	354.4	372.9	416.6	476.7	503.1
152.5°	363.0	377.3	416.6	467.9	488.0
155°	376.0	386.6	416.6	457.5	470.7
157.5°	385.7	395.8	416.6	448.2	457.7
160°	392.2	400.2	416.6	443.8	449.0
162.5°	398.7	404.5	416.6	439.4	444.7
165°	405.8	411.0	416.6	432.9	438.2
167.5°	412.3	414.9	419.3	430.2	432.3
170°	416.6	419.2	419.3	430.1	430.1
172.5°	418.7	419.3	419.3	427.9	425.8
175°	422.0	422.0	419.3	424.7	424.7
177.5°	422.0	422.0	419.8	424.1	422.0
180°	422.0	422.0	422.0	422.0	422.0

(END OF REPORT)