

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: P565032

Luminaire Tested: **SQ4-PW1-125U-075D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P565032  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PW1-125U-075D-835-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

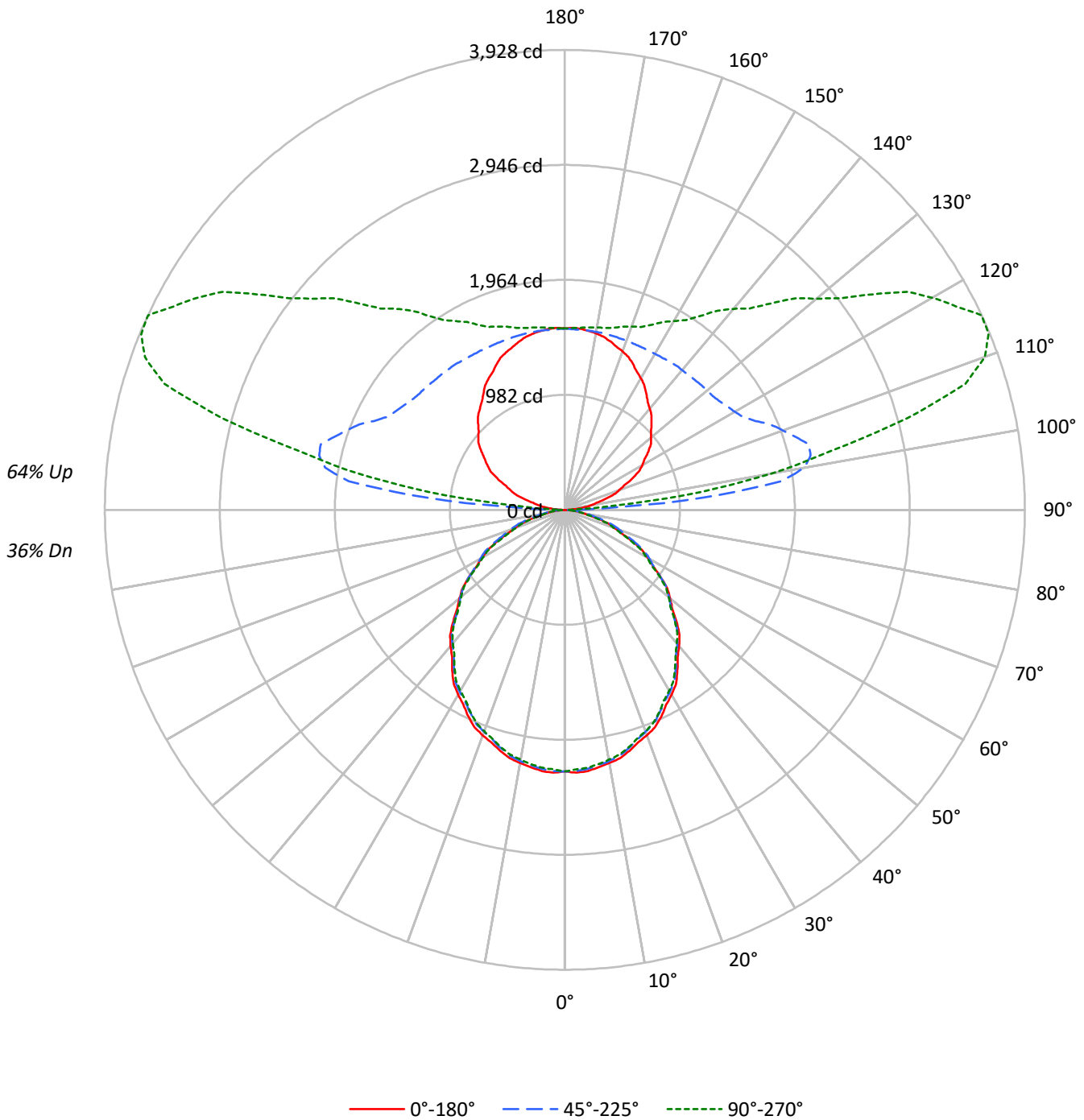
Lumens per Lamp: N/A  
Luminaire Lumens: 15685.7 lumens  
Efficiency: N/A  
Efficacy: 135.2 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 116  
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



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### Luminous Intensity Polar Plot





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**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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	36				
1	95	91	87	83	86	82	79	76	66	64	62	52	50	49	39	38	37	31				
2	86	79	73	68	78	72	67	62	58	55	52	46	43	41	34	32	31	26				
3	79	70	62	57	71	63	57	52	51	47	43	40	37	35	30	28	27	22				
4	72	61	54	48	65	56	49	44	46	41	37	36	33	30	27	25	23	19				
5	66	55	47	41	60	50	43	38	41	36	32	32	29	26	24	22	20	16				
6	61	49	41	35	55	45	38	33	37	31	28	29	25	23	22	19	18	14				
7	56	44	36	31	51	40	34	29	33	28	24	26	23	20	20	17	16	13				
8	52	40	32	27	47	37	30	25	30	25	21	24	20	18	18	16	14	11				
9	48	36	29	24	44	33	27	22	28	23	19	22	18	16	17	14	13	10				
10	45	33	26	22	41	31	24	20	25	20	17	20	17	14	16	13	11	9				

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

	0°	45°	90°
0°	10305	10305	10305
5°	10371	10289	10244
10°	10289	10206	10150
15°	10180	10067	10029
20°	10058	9903	9884
25°	9917	9737	9707
30°	9708	9561	9498
35°	9432	9299	9244
40°	9138	8996	8960
45°	8782	8667	8629
50°	8418	8348	8291
55°	8025	8025	7899
60°	7536	7681	7409
65°	6896	7240	6724
70°	6079	6663	5920
75°	5192	5964	5051
80°	4025	5018	4078
85°	2604	3853	3435



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	210.3	1.3
10°-20°	593.9	3.8
20°-30°	880.9	5.6
30°-40°	1030.8	6.6
40°-50°	1026.2	6.5
50°-60°	886.1	5.6
60°-70°	637.9	4.1
70°-80°	334.5	2.1
80°-90°	86.6	0.6
90°-100°	724.6	4.6
100°-110°	1951.8	12.4
110°-120°	2048.3	13.1
120°-130°	1662.1	10.6
130°-140°	1303.6	8.3
140°-150°	1000.8	6.4
150°-160°	719.6	4.6
160°-170°	439.6	2.8
170°-180°	148.3	0.9
0°-30°	1685.1	10.7
0°-40°	2715.9	17.3
0°-60°	4628.2	29.5
0°-90°	5687.1	36.3
90°-120°	4724.6	30.1
90°-150°	8691.2	55.4
90°-180°	9999.0	63.7
0°-180°	15685.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2234	2234	2234	2234	2234	
5°	2240	2215	2222	2216	2212	212
15°	2132	2104	2108	2104	2100	601
25°	1948	1916	1913	1901	1907	896
35°	1675	1652	1651	1636	1641	1047
45°	1346	1335	1328	1324	1323	1039
55°	998	996	998	984	982	890
65°	632	651	663	637	616	626
75°	291	318	335	312	283	312
85°	49	65	73	69	65	65
90°	4	12	24	26	26	9
95°	110	394	1188	607	420	115
105°	361	562	2158	3229	3031	380
115°	637	780	1797	3473	3928	627
125°	870	999	1614	2728	3210	777
135°	1048	1169	1569	2201	2492	809
145°	1211	1306	1549	1882	2020	760
155°	1375	1425	1535	1688	1742	633
165°	1492	1509	1541	1602	1610	421
175°	1551	1549	1543	1564	1561	147
180°	1549	1549	1549	1549	1549	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2233.8	2233.8	2233.8	2233.8	2233.8
2.5°	2246.4	2227.9	2233.8	2228.9	2218.1
5°	2239.7	2214.7	2222.0	2216.0	2212.2
7.5°	2216.9	2193.8	2199.2	2192.8	2190.5
10°	2196.4	2173.3	2178.7	2170.8	2166.9
12.5°	2172.8	2148.2	2153.5	2145.6	2143.3
15°	2131.5	2104.5	2107.9	2103.8	2100.0
17.5°	2083.5	2056.1	2056.7	2050.4	2049.6
20°	2048.8	2020.0	2017.3	2009.5	2013.4
22.5°	2011.0	1980.6	1978.0	1967.1	1972.5
25°	1948.4	1915.7	1913.0	1901.3	1907.1
27.5°	1876.0	1843.7	1843.7	1827.3	1833.5
30°	1822.5	1791.7	1794.9	1775.4	1783.1
32.5°	1765.8	1738.1	1739.8	1720.3	1728.0
35°	1674.9	1651.8	1651.3	1635.6	1641.4
37.5°	1582.0	1561.6	1558.4	1549.3	1550.9
40°	1517.4	1500.1	1493.8	1487.9	1487.9
42.5°	1449.7	1433.9	1427.7	1423.3	1421.8
45°	1346.2	1334.7	1328.5	1324.5	1322.6
47.5°	1243.9	1233.1	1227.7	1224.9	1223.0
50°	1173.0	1165.3	1163.2	1157.2	1155.3
52.5°	1102.2	1097.5	1095.5	1087.9	1086.0
55°	997.8	995.9	997.8	984.0	982.1
57.5°	889.2	892.3	898.6	880.0	875.4
60°	816.8	824.5	832.5	810.7	803.0
62.5°	742.8	755.1	766.4	741.3	730.6
65°	631.8	651.0	663.3	637.2	616.0
67.5°	524.7	548.6	563.3	535.2	511.3
70°	450.7	477.6	494.0	465.8	438.9
72.5°	386.1	416.2	429.4	402.9	375.9
75°	291.3	318.2	334.6	312.3	283.4
77.5°	206.7	232.1	245.6	226.2	202.3
80°	151.5	178.5	188.9	172.8	153.5
82.5°	107.5	129.8	137.0	127.2	114.2
85°	49.2	64.6	72.8	68.8	64.9
87.5°	13.4	25.7	34.7	35.1	36.6
90°	3.9	11.7	23.7	25.6	25.6
92.5°	48.1	170.1	336.2	161.9	112.5
95°	110.5	394.1	1187.8	607.4	420.3
97.5°	176.4	451.1	1862.9	1556.3	1173.6
100°	226.9	473.8	2077.6	2173.8	1803.4
102.5°	275.8	505.8	2148.6	2636.2	2332.1
105°	361.1	561.7	2158.5	3229.3	3030.6
107.5°	441.6	620.6	2066.6	3534.1	3585.4
110°	495.2	665.0	1982.9	3628.7	3815.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	552.1	709.5	1902.4	3607.8	3915.3
115°	637.3	780.1	1797.4	3473.0	3928.3
117.5°	715.0	848.9	1716.2	3258.0	3765.0
120°	765.5	894.8	1675.1	3103.6	3624.5
122.5°	809.7	937.4	1645.1	2945.7	3465.1
125°	870.1	999.4	1613.9	2727.8	3210.1
127.5°	928.1	1055.4	1594.2	2535.7	2966.3
130°	962.8	1090.2	1586.3	2425.6	2803.7
132.5°	997.6	1123.4	1578.4	2328.6	2675.8
135°	1047.7	1169.2	1568.6	2200.6	2491.9
137.5°	1095.4	1212.0	1563.4	2092.1	2331.3
140°	1128.6	1240.5	1558.7	2025.3	2241.4
142.5°	1163.3	1267.5	1555.5	1963.0	2145.1
145°	1211.4	1306.0	1548.8	1881.5	2020.4
147.5°	1263.5	1345.7	1542.1	1812.9	1922.1
150°	1298.3	1369.6	1539.0	1769.9	1860.6
152.5°	1329.8	1391.9	1537.4	1734.8	1808.5
155°	1375.2	1425.4	1535.0	1688.2	1742.2
157.5°	1415.1	1454.0	1535.4	1655.4	1691.7
160°	1440.3	1473.1	1537.0	1636.3	1663.3
162.5°	1462.4	1489.0	1538.6	1620.3	1639.6
165°	1491.6	1509.0	1540.9	1602.3	1610.0
167.5°	1515.3	1525.3	1542.9	1588.4	1591.5
170°	1531.1	1534.9	1542.9	1580.4	1580.4
172.5°	1540.5	1541.3	1544.5	1572.5	1572.5
175°	1550.8	1548.9	1542.9	1564.5	1560.7
177.5°	1555.2	1552.1	1544.1	1556.7	1553.6
180°	1548.8	1548.8	1548.8	1548.8	1548.8

(END OF REPORT)