

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: P565001

Luminaire Tested: **SQ4-PW1-125U-050D-830-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P565001  
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-050D-830-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19621.2 lumens  
Efficiency: N/A  
Efficacy: 134.0 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Indirect

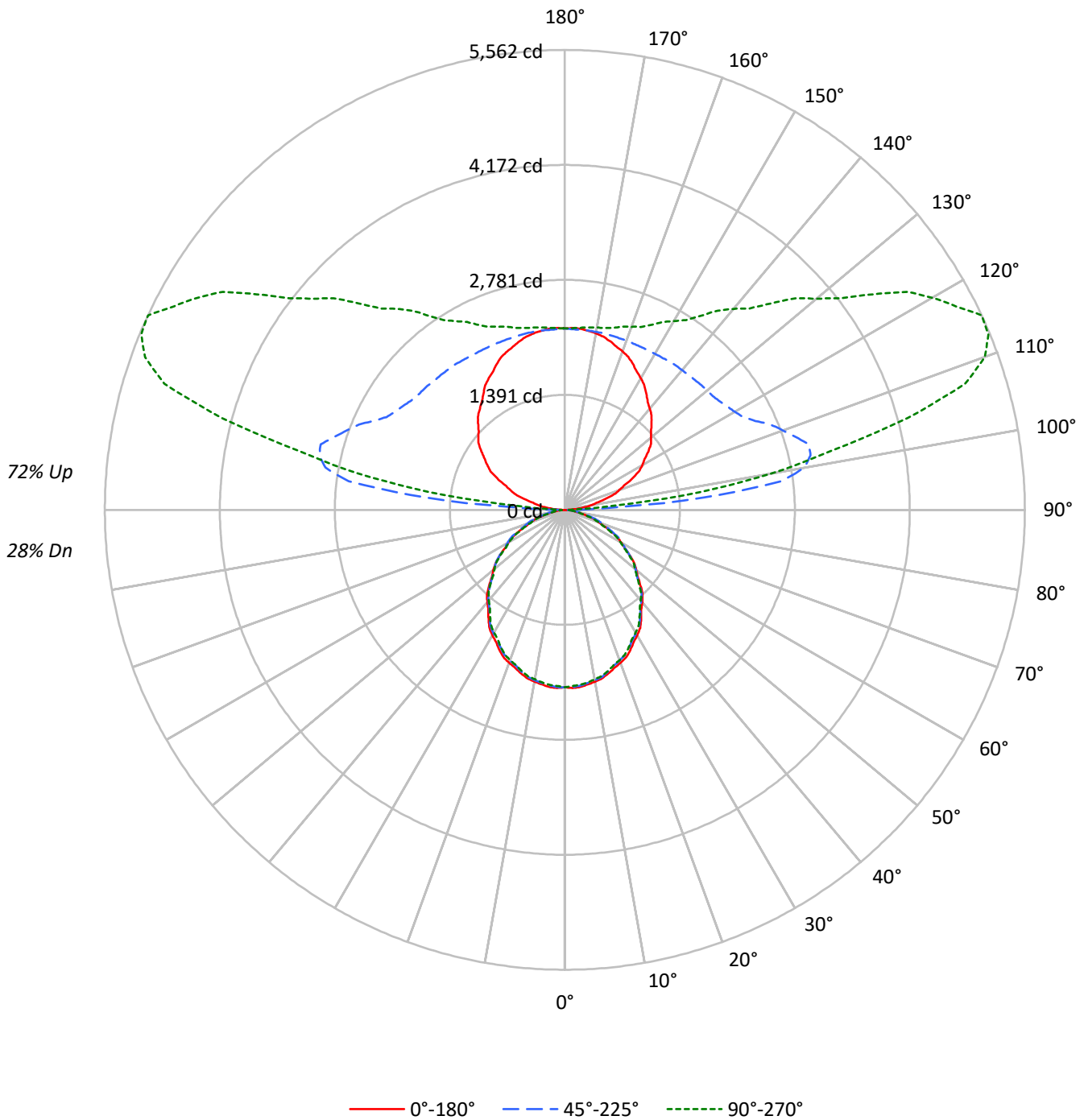
Input Watts (W): 146.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	0
RCR																		
0	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28
1	93	89	85	82	83	79	76	74	62	60	58	46	45	44	32	31	30	24
2	85	77	72	67	75	69	65	60	55	51	48	41	39	37	28	27	26	20
3	77	68	61	55	69	61	55	50	48	44	41	36	33	31	25	23	22	17
4	70	60	53	47	63	54	48	43	43	38	34	32	29	26	22	20	19	14
5	65	53	46	40	58	48	41	36	38	33	30	29	25	23	20	18	16	13
6	59	48	40	34	53	43	36	31	34	29	26	26	22	20	18	16	14	11
7	55	43	35	30	49	39	32	27	31	26	22	23	20	18	16	14	13	10
8	51	39	31	26	45	35	29	24	28	23	20	21	18	16	15	13	11	9
9	47	35	28	23	42	32	26	21	26	21	18	20	16	14	14	12	10	8
10	44	32	25	21	39	29	23	19	23	19	16	18	15	12	13	11	9	7

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

	0°	45°	90°
0°	6599	6599	6599
5°	6642	6590	6560
10°	6589	6536	6501
15°	6519	6447	6423
20°	6441	6342	6330
25°	6351	6236	6217
30°	6217	6123	6083
35°	6040	5955	5920
40°	5852	5761	5738
45°	5624	5551	5526
50°	5391	5346	5310
55°	5139	5139	5058
60°	4826	4919	4745
65°	4416	4636	4307
70°	3893	4267	3791
75°	3325	3819	3234
80°	2579	3214	2612
85°	1669	2470	2202



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	202.1	1.0
10°-20°	570.5	2.9
20°-30°	846.2	4.3
30°-40°	990.2	5.0
40°-50°	985.8	5.0
50°-60°	851.2	4.3
60°-70°	612.7	3.1
70°-80°	321.3	1.6
80°-90°	84.8	0.4
90°-100°	1025.9	5.2
100°-110°	2763.4	14.1
110°-120°	2900.1	14.8
120°-130°	2353.3	12.0
130°-140°	1845.6	9.4
140°-150°	1417.0	7.2
150°-160°	1018.8	5.2
160°-170°	622.4	3.2
170°-180°	209.9	1.1
0°-30°	1618.8	8.3
0°-40°	2608.9	13.3
0°-60°	4445.9	22.7
0°-90°	5464.8	27.9
90°-120°	6689.3	34.1
90°-150°	12305.3	62.7
90°-180°	14156.0	72.1
0°-180°	19621.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2146	2146	2146	2146	2146	
5°	2152	2128	2134	2129	2125	204
15°	2048	2022	2025	2021	2017	577
25°	1872	1840	1838	1826	1832	861
35°	1609	1587	1586	1571	1577	1006
45°	1293	1282	1276	1272	1270	998
55°	958	957	958	945	943	855
65°	607	625	637	612	592	601
75°	280	306	321	300	272	300
85°	47	62	70	66	62	62
90°	6	16	34	36	36	13
95°	156	558	1682	860	595	163
105°	511	795	3056	4572	4291	537
115°	902	1104	2545	4917	5562	888
125°	1232	1415	2285	3862	4545	1100
135°	1483	1655	2221	3116	3528	1145
145°	1715	1849	2193	2664	2861	1076
155°	1947	2018	2173	2390	2467	896
165°	2112	2136	2182	2269	2280	596
175°	2196	2193	2184	2215	2210	209
180°	2193	2193	2193	2193	2193	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2145.8	2145.8	2145.8	2145.8	2145.8
2.5°	2157.9	2140.2	2145.8	2141.1	2130.7
5°	2151.5	2127.5	2134.5	2128.7	2125.1
7.5°	2129.6	2107.4	2112.6	2106.5	2104.3
10°	2109.9	2087.7	2092.9	2085.3	2081.6
12.5°	2087.2	2063.6	2068.7	2061.1	2058.9
15°	2047.5	2021.7	2024.8	2021.0	2017.3
17.5°	2001.4	1975.2	1975.7	1969.6	1968.9
20°	1968.1	1940.4	1937.9	1930.4	1934.1
22.5°	1931.8	1902.6	1900.1	1889.6	1894.8
25°	1871.7	1840.3	1837.7	1826.5	1832.0
27.5°	1802.1	1771.1	1771.1	1755.4	1761.3
30°	1750.7	1721.1	1724.2	1705.5	1712.9
32.5°	1696.3	1669.6	1671.3	1652.6	1660.0
35°	1608.9	1586.7	1586.2	1571.2	1576.8
37.5°	1519.7	1500.1	1497.0	1488.3	1489.8
40°	1457.7	1441.0	1435.0	1429.3	1429.3
42.5°	1392.6	1377.5	1371.5	1367.3	1365.8
45°	1293.2	1282.1	1276.2	1272.3	1270.5
47.5°	1194.9	1184.5	1179.4	1176.7	1174.8
50°	1126.8	1119.4	1117.4	1111.6	1109.8
52.5°	1058.7	1054.3	1052.3	1045.1	1043.2
55°	958.5	956.7	958.5	945.3	943.4
57.5°	854.2	857.1	863.3	845.4	840.9
60°	784.6	792.0	799.7	778.8	771.4
62.5°	713.5	725.3	736.2	712.1	701.8
65°	606.9	625.4	637.1	612.1	591.8
67.5°	504.0	527.0	541.1	514.1	491.2
70°	433.0	458.8	474.5	447.5	421.6
72.5°	370.9	399.8	412.5	387.0	361.1
75°	279.8	305.7	321.4	300.0	272.2
77.5°	198.5	222.9	235.9	217.3	194.4
80°	145.6	171.5	181.5	166.0	147.5
82.5°	103.2	124.7	131.6	122.2	109.7
85°	47.3	62.1	70.0	66.1	62.4
87.5°	13.2	25.8	35.4	36.0	37.5
90°	5.6	16.5	33.5	36.3	36.3
92.5°	68.2	240.8	476.0	229.2	159.2
95°	156.4	558.0	1681.7	860.0	595.0
97.5°	249.7	638.7	2637.6	2203.5	1661.6
100°	321.3	670.9	2941.6	3077.7	2553.3
102.5°	390.5	716.1	3042.1	3732.4	3301.9
105°	511.2	795.3	3056.1	4572.2	4290.8
107.5°	625.2	878.7	2925.9	5003.7	5076.4
110°	701.2	941.5	2807.5	5137.7	5402.6

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	781.6	1004.5	2693.5	5108.0	5543.4
115°	902.3	1104.4	2544.9	4917.3	5561.9
117.5°	1012.4	1201.9	2429.8	4612.7	5330.6
120°	1083.9	1266.9	2371.7	4394.2	5131.7
122.5°	1146.5	1327.3	2329.2	4170.7	4906.0
125°	1231.9	1414.9	2285.1	3862.2	4545.0
127.5°	1314.1	1494.3	2257.2	3590.1	4199.8
130°	1363.2	1543.5	2246.0	3434.2	3969.6
132.5°	1412.4	1590.5	2234.8	3296.9	3788.6
135°	1483.4	1655.4	2220.8	3115.8	3528.2
137.5°	1551.0	1715.9	2213.6	2962.1	3300.8
140°	1597.9	1756.3	2206.9	2867.5	3173.4
142.5°	1647.1	1794.5	2202.4	2779.3	3037.1
145°	1715.2	1849.1	2192.9	2663.9	2860.6
147.5°	1789.0	1905.3	2183.4	2566.8	2721.4
150°	1838.1	1939.2	2178.9	2505.9	2634.3
152.5°	1882.8	1970.8	2176.7	2456.2	2560.5
155°	1947.1	2018.1	2173.3	2390.2	2466.7
157.5°	2003.5	2058.7	2173.9	2343.8	2395.2
160°	2039.3	2085.7	2176.1	2316.7	2354.9
162.5°	2070.5	2108.2	2178.4	2294.1	2321.4
165°	2111.9	2136.5	2181.7	2268.6	2279.5
167.5°	2145.4	2159.6	2184.5	2248.9	2253.2
170°	2167.8	2173.2	2184.5	2237.6	2237.6
172.5°	2181.2	2182.3	2186.8	2226.4	2226.4
175°	2195.7	2193.0	2184.5	2215.1	2209.7
177.5°	2201.8	2197.5	2186.2	2204.0	2199.6
180°	2192.9	2192.9	2192.9	2192.9	2192.9

(END OF REPORT)