

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: P565067

Luminaire Tested: **SQ4-PW1-125U-100D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P565067  
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-100D-935-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

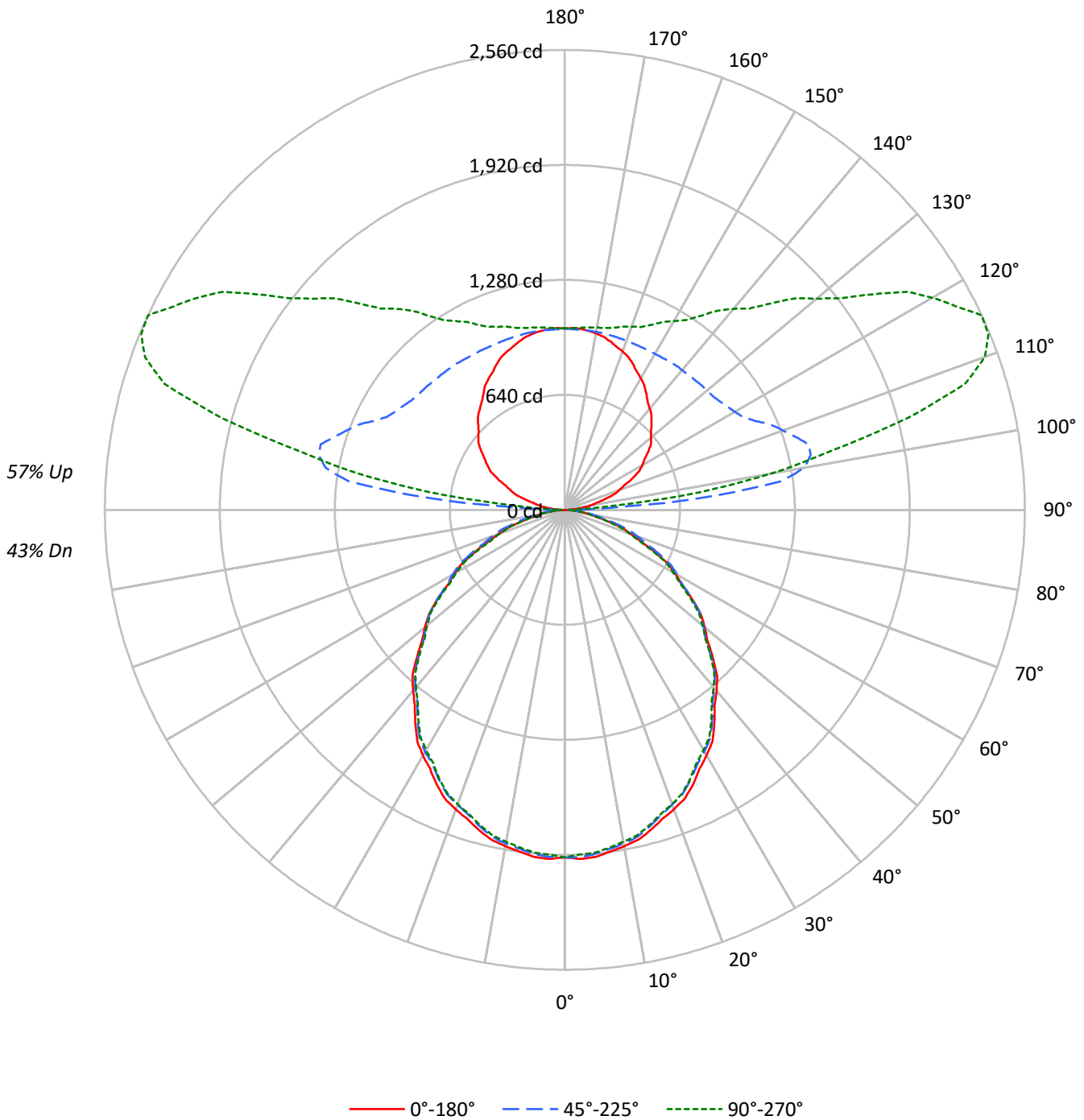
Lumens per Lamp: N/A  
Luminaire Lumens: 11439.3 lumens  
Efficiency: N/A  
Efficacy: 111.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 102.8  
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



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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	105	105	105	105	96	96	96	96	79	79	79	64	64	64	50	50	50	43
1	96	92	88	85	88	84	81	78	70	67	65	56	55	53	44	43	42	36
2	88	80	74	69	80	74	69	64	61	57	54	50	47	45	39	37	36	31
3	80	71	64	58	73	65	59	54	54	49	46	44	41	38	34	32	30	26
4	73	63	55	49	67	58	51	45	48	43	39	39	35	32	31	28	26	22
5	67	56	48	42	61	51	44	39	43	38	33	35	31	28	28	25	23	19
6	62	50	42	36	56	46	39	34	39	33	29	32	28	25	25	22	20	17
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15
8	53	41	33	28	48	38	31	26	32	27	23	26	22	19	21	18	16	14
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	17	14	12
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	18	15	13	11

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

	0°	45°	90°
0°	11897	11897	11897
5°	11974	11879	11827
10°	11878	11782	11719
15°	11752	11622	11579
20°	11612	11434	11411
25°	11450	11241	11207
30°	11207	11038	10966
35°	10889	10736	10672
40°	10550	10386	10344
45°	10139	10006	9962
50°	9719	9638	9572
55°	9265	9265	9119
60°	8700	8868	8553
65°	7961	8358	7763
70°	7019	7692	6834
75°	5994	6885	5832
80°	4647	5795	4707
85°	3006	4453	3966



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	182.1	1.6
10°-20°	514.2	4.5
20°-30°	762.8	6.7
30°-40°	892.5	7.8
40°-50°	888.5	7.8
50°-60°	767.3	6.7
60°-70°	552.3	4.8
70°-80°	289.6	2.5
80°-90°	74.2	0.6
90°-100°	472.2	4.1
100°-110°	1271.9	11.1
110°-120°	1334.8	11.7
120°-130°	1083.2	9.5
130°-140°	849.5	7.4
140°-150°	652.2	5.7
150°-160°	468.9	4.1
160°-170°	286.5	2.5
170°-180°	96.6	0.8
0°-30°	1459.1	12.8
0°-40°	2351.6	20.6
0°-60°	4007.4	35.0
0°-90°	4923.5	43.0
90°-120°	3078.9	26.9
90°-150°	5663.8	49.5
90°-180°	6516.0	57.0
0°-180°	11439.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1934	1934	1934	1934	1934	
5°	1939	1918	1924	1919	1916	184
15°	1846	1822	1825	1822	1818	520
25°	1687	1659	1656	1646	1651	776
35°	1450	1430	1430	1416	1421	907
45°	1166	1156	1150	1147	1145	899
55°	864	862	864	852	850	771
65°	547	564	574	552	533	542
75°	252	276	290	270	245	270
85°	43	56	63	60	56	56
90°	3	8	15	17	17	7
95°	72	257	774	396	274	75
105°	235	366	1407	2104	1975	247
115°	415	508	1171	2263	2560	409
125°	567	651	1052	1778	2092	506
135°	683	762	1022	1434	1624	527
145°	790	851	1009	1226	1317	495
155°	896	929	1000	1100	1135	413
165°	972	983	1004	1044	1049	274
175°	1011	1009	1006	1020	1017	96
180°	1009	1009	1009	1009	1009	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1934.2	1934.2	1934.2	1934.2	1934.2
2.5°	1945.1	1929.1	1934.2	1929.9	1920.6
5°	1939.3	1917.7	1924.0	1918.8	1915.5
7.5°	1919.6	1899.6	1904.2	1898.7	1896.7
10°	1901.8	1881.8	1886.5	1879.6	1876.3
12.5°	1881.4	1860.1	1864.7	1857.8	1855.8
15°	1845.6	1822.3	1825.1	1821.7	1818.3
17.5°	1804.0	1780.4	1780.8	1775.4	1774.7
20°	1774.0	1749.0	1746.8	1740.0	1743.3
22.5°	1741.3	1715.0	1712.7	1703.2	1707.9
25°	1687.1	1658.8	1656.4	1646.3	1651.3
27.5°	1624.4	1596.4	1596.4	1582.3	1587.6
30°	1578.0	1551.4	1554.2	1537.3	1544.0
32.5°	1529.0	1505.0	1506.5	1489.6	1496.2
35°	1450.2	1430.2	1429.8	1416.3	1421.3
37.5°	1369.8	1352.1	1349.3	1341.5	1342.9
40°	1313.9	1298.9	1293.5	1288.3	1288.3
42.5°	1255.3	1241.6	1236.2	1232.4	1231.1
45°	1165.6	1155.6	1150.3	1146.9	1145.2
47.5°	1077.0	1067.7	1063.0	1060.6	1059.0
50°	1015.7	1009.0	1007.2	1002.0	1000.3
52.5°	954.3	950.3	948.5	942.0	940.4
55°	864.0	862.3	864.0	852.0	850.4
57.5°	769.9	772.6	778.1	762.0	758.0
60°	707.2	713.9	720.9	702.0	695.3
62.5°	643.1	653.8	663.6	641.9	632.6
65°	547.0	563.7	574.3	551.7	533.4
67.5°	454.3	475.0	487.7	463.4	442.7
70°	390.3	413.6	427.7	403.4	380.0
72.5°	334.4	360.3	371.8	348.8	325.5
75°	252.2	275.5	289.7	270.4	245.4
77.5°	178.9	200.9	212.7	195.8	175.2
80°	131.2	154.5	163.6	149.6	132.9
82.5°	93.0	112.4	118.6	110.2	98.8
85°	42.6	55.9	63.1	59.6	56.2
87.5°	11.4	21.8	29.0	29.3	30.6
90°	2.6	7.6	15.4	16.7	16.7
92.5°	31.4	110.8	219.1	105.5	73.3
95°	72.0	256.8	774.0	395.8	273.9
97.5°	114.9	294.0	1214.0	1014.2	764.8
100°	147.9	308.8	1353.9	1416.6	1175.2
102.5°	179.8	329.6	1400.2	1717.9	1519.8
105°	235.3	366.0	1406.6	2104.4	1974.9
107.5°	287.8	404.4	1346.7	2303.1	2336.5
110°	322.7	433.4	1292.2	2364.7	2486.7

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	359.8	462.3	1239.7	2351.1	2551.5
115°	415.3	508.3	1171.3	2263.3	2560.0
117.5°	466.0	553.2	1118.4	2123.1	2453.5
120°	498.9	583.1	1091.6	2022.5	2362.0
122.5°	527.7	610.9	1072.1	1919.6	2258.1
125°	567.0	651.3	1051.8	1777.6	2091.9
127.5°	604.8	687.8	1038.9	1652.4	1933.0
130°	627.5	710.4	1033.8	1580.7	1827.1
132.5°	650.1	732.1	1028.6	1517.5	1743.8
135°	682.7	761.9	1022.2	1434.1	1623.9
137.5°	713.9	789.8	1018.8	1363.4	1519.3
140°	735.5	808.4	1015.8	1319.8	1460.6
142.5°	758.1	826.0	1013.7	1279.2	1397.9
145°	789.5	851.1	1009.3	1226.1	1316.6
147.5°	823.4	877.0	1005.0	1181.4	1252.6
150°	846.0	892.6	1002.9	1153.4	1212.5
152.5°	866.6	907.1	1001.9	1130.5	1178.5
155°	896.2	928.9	1000.3	1100.1	1135.3
157.5°	922.2	947.5	1000.6	1078.8	1102.4
160°	938.6	960.0	1001.6	1066.3	1083.9
162.5°	953.0	970.4	1002.6	1055.9	1068.5
165°	972.0	983.4	1004.2	1044.2	1049.2
167.5°	987.5	994.0	1005.5	1035.1	1037.1
170°	997.8	1000.3	1005.5	1029.9	1029.9
172.5°	1003.9	1004.4	1006.5	1024.8	1024.8
175°	1010.6	1009.4	1005.5	1019.6	1017.0
177.5°	1013.4	1011.4	1006.2	1014.4	1012.4
180°	1009.3	1009.3	1009.3	1009.3	1009.3

(END OF REPORT)