

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: P564779

Luminaire Tested: **SQ4-PW1-075U-100D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564779  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PW1-075U-100D-935-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

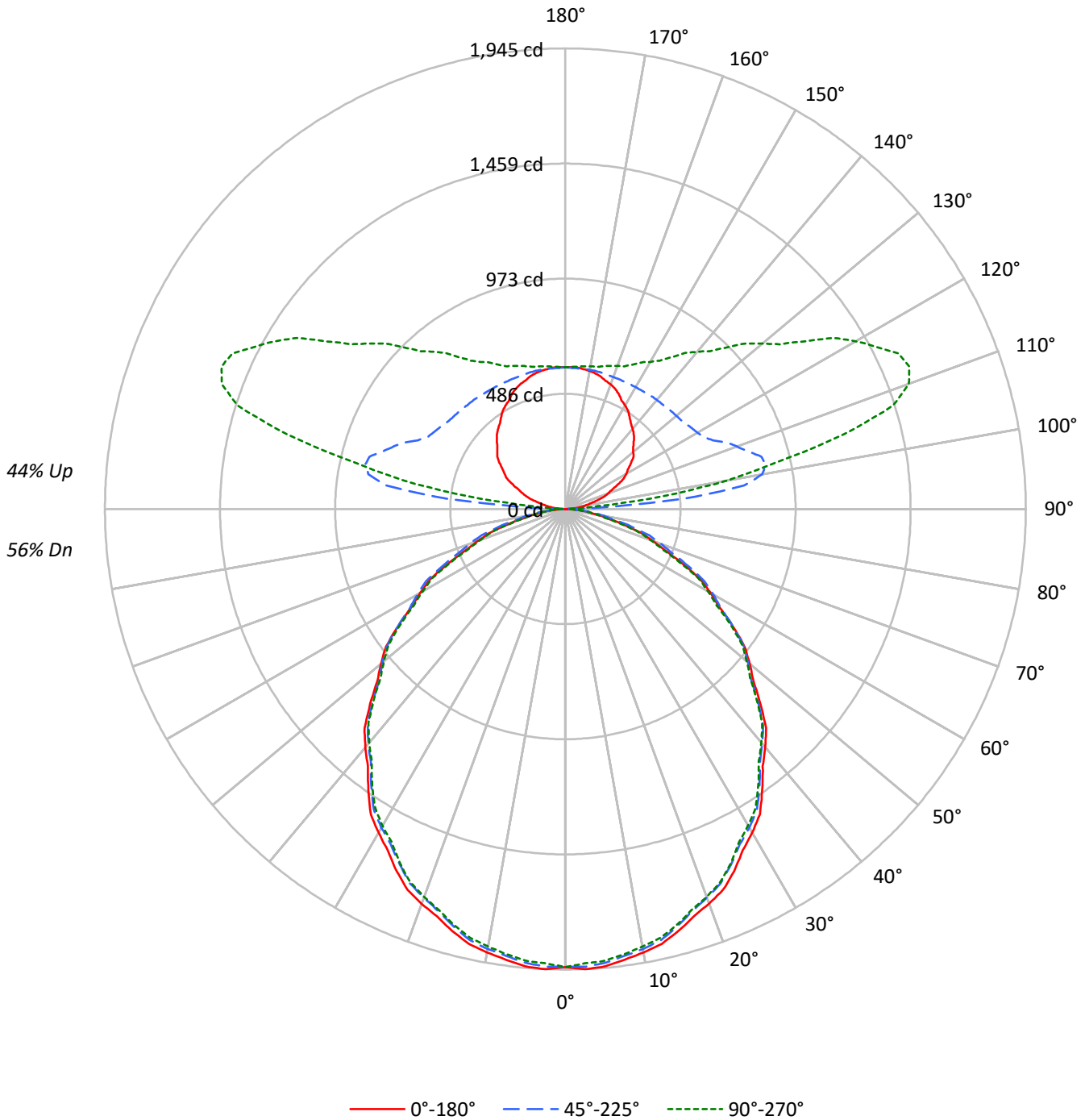
Lumens per Lamp: N/A  
Luminaire Lumens: 8824.6 lumens  
Efficiency: N/A  
Efficacy: 106.4 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 82.9  
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: P564779  
CATALOG NUMBER: SQ4-PW1-075U-100D-935-1D-UNV-STD-W-6

### Luminous Intensity Polar Plot





TEST NUMBER: P564779

CATALOG NUMBER: SQ4-PW1-075U-100D-935-1D-UNV-STD-W-6

**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	109	109	109	109	101	101	101	101	87	87	87	73	73	73	61	61	61	56
1	99	95	91	88	92	88	85	82	76	74	71	65	63	61	55	53	52	47
2	90	83	77	72	84	77	72	67	67	63	59	57	54	51	48	46	44	40
3	83	73	66	60	76	68	62	56	59	54	50	51	47	44	43	40	38	34
4	76	65	57	51	70	60	53	48	52	47	43	45	41	37	38	35	32	29
5	69	58	49	43	64	54	47	41	47	41	37	40	36	32	34	31	28	25
6	64	52	44	38	59	49	41	36	42	37	32	37	32	28	31	28	25	22
7	59	47	39	33	55	44	37	32	38	33	28	33	29	25	29	25	22	20
8	55	43	35	29	51	40	33	28	35	29	25	30	26	23	26	23	20	18
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	24	21	18	16
10	48	36	28	24	44	34	27	22	30	24	20	26	21	18	22	19	16	14

**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



TEST NUMBER: P564779

CATALOG NUMBER: SQ4-PW1-075U-100D-935-1D-UNV-STD-W-6

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	182.1	2.1
10°-20°	514.2	5.8
20°-30°	762.8	8.6
30°-40°	892.5	10.1
40°-50°	888.5	10.1
50°-60°	767.3	8.7
60°-70°	552.3	6.3
70°-80°	289.6	3.3
80°-90°	73.3	0.8
90°-100°	282.5	3.2
100°-110°	777.2	8.8
110°-120°	802.2	9.1
120°-130°	642.7	7.3
130°-140°	504.8	5.7
140°-150°	386.9	4.4
150°-160°	278.2	3.2
160°-170°	170.1	1.9
170°-180°	57.3	0.6
0°-30°	1459.1	16.5
0°-40°	2351.6	26.6
0°-60°	4007.4	45.4
0°-90°	4922.6	55.8
90°-120°	1861.9	21.1
90°-150°	3396.4	38.5
90°-180°	3902.0	44.2
0°-180°	8824.6	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°	1	5	9	12	12	4
95°	42	154	500	214	136	44
105°	139	214	856	1304	1217	146
115°	246	300	687	1368	1552	243
125°	339	386	623	1054	1235	302
135°	409	454	605	852	965	316
145°	473	505	596	726	782	296
155°	535	553	593	653	672	246
165°	579	586	595	619	623	163
175°	599	600	596	604	603	57
180°	599	599	599	599	599	

TEST NUMBER: P564779

CATALOG NUMBER: SQ4-PW1-075U-100D-935-1D-UNV-STD-W-6

**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°	11.2	21.2	27.7	28.2	29.6
90°	1.3	5.0	8.9	11.5	11.5
92.5°	17.6	75.2	130.2	50.0	41.0
95°	42.1	154.2	499.5	213.6	136.4
97.5°	68.6	171.0	762.3	587.4	414.4
100°	87.9	181.4	844.9	852.8	695.8
102.5°	106.3	193.8	866.3	1058.0	914.0
105°	138.9	213.7	856.4	1304.2	1217.0
107.5°	170.0	238.3	807.7	1424.8	1450.7
110°	192.4	254.7	771.0	1454.8	1544.5

TEST NUMBER: P564779

CATALOG NUMBER: SQ4-PW1-075U-100D-935-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	212.8	273.1	734.3	1435.5	1572.1
115°	246.0	299.5	686.9	1367.8	1552.2
117.5°	277.6	326.9	656.8	1272.7	1481.3
120°	296.9	344.3	643.6	1201.5	1417.1
122.5°	314.3	361.6	634.4	1139.1	1343.7
125°	339.0	386.3	623.2	1054.2	1234.9
127.5°	362.4	407.5	615.8	983.3	1141.8
130°	374.7	420.8	611.7	941.2	1085.8
132.5°	388.9	435.0	608.6	904.2	1034.8
135°	409.1	453.9	605.3	852.5	964.7
137.5°	427.9	469.5	602.5	810.8	903.3
140°	442.2	480.8	601.5	783.1	866.6
142.5°	454.4	490.1	599.5	758.3	829.9
145°	472.8	505.2	596.4	726.4	782.5
147.5°	492.4	520.3	594.9	698.1	743.0
150°	504.6	529.6	593.9	682.6	717.5
152.5°	515.9	538.8	592.8	669.2	698.1
155°	535.2	552.7	592.6	652.9	671.6
157.5°	549.2	563.5	592.6	639.5	652.5
160°	559.4	570.7	592.6	632.3	642.3
162.5°	567.6	576.8	593.6	626.1	634.1
165°	578.6	586.0	595.1	619.4	623.2
167.5°	586.2	591.9	596.4	613.8	614.8
170°	591.3	595.0	596.4	611.7	611.7
172.5°	595.4	597.1	596.4	608.6	607.6
175°	598.9	600.2	596.4	604.0	602.8
177.5°	600.0	600.0	595.9	602.0	600.0
180°	598.9	598.9	598.9	598.9	598.9

(END OF REPORT)