

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: P564272

Luminaire Tested: **SQ4-PR1-100U-075D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564272
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PR1-100U-075D-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

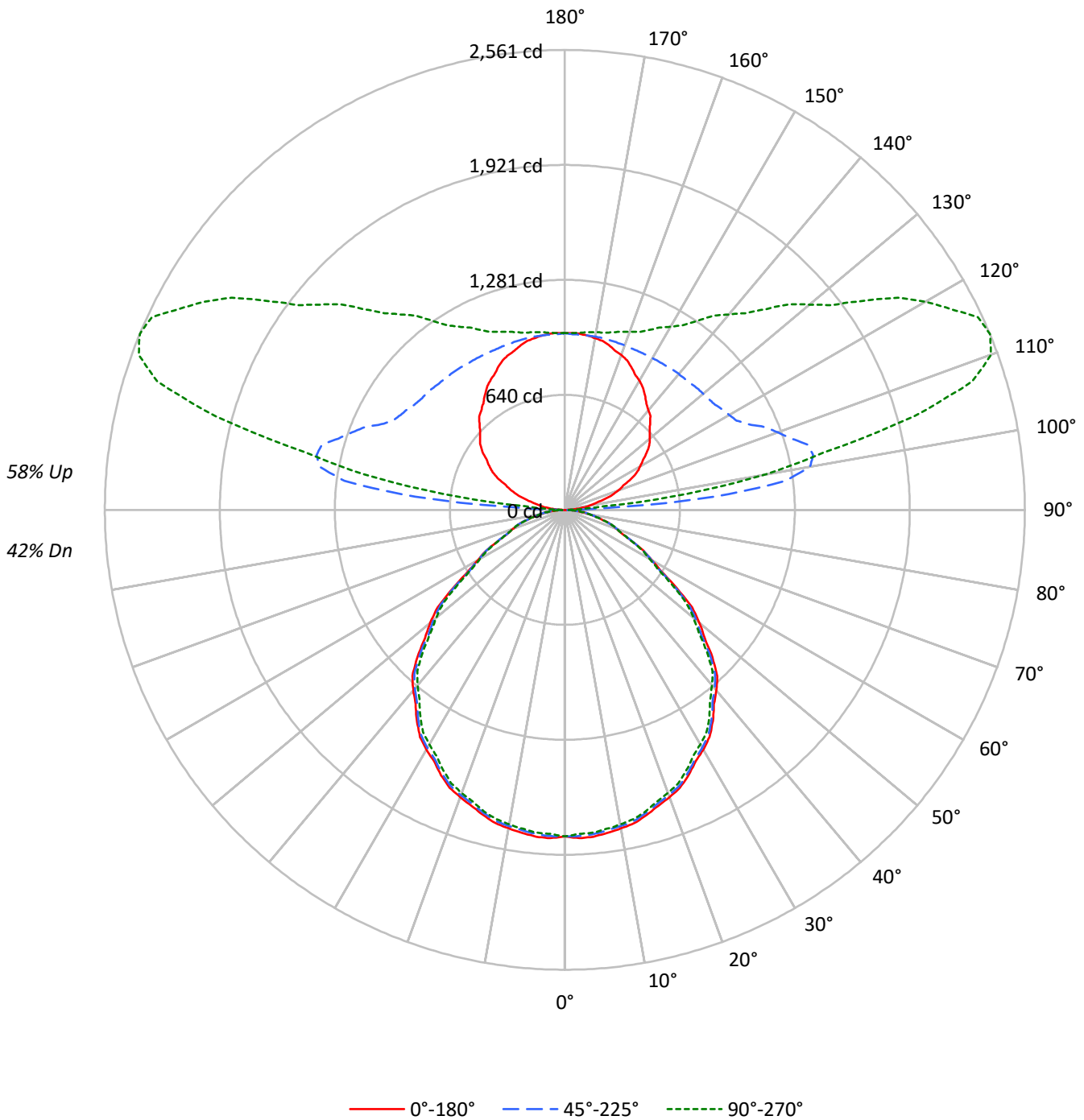
Lumens per Lamp: N/A
Luminaire Lumens: 10939.6 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 103.9
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: P564272
CATALOG NUMBER: SQ4-PR1-100U-075D-930-1D-UNV-STD-W-8

Luminous Intensity Polar Plot





TEST NUMBER: P564272

CATALOG NUMBER: SQ4-PR1-100U-075D-930-1D-UNV-STD-W-8

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	63	63	63	48	48	48	42
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	35
2	88	81	75	70	80	74	69	64	61	57	54	49	47	44	38	37	35	30
3	80	71	64	58	73	65	59	54	54	49	46	44	40	38	34	32	30	26
4	73	63	55	49	67	58	51	46	48	43	39	39	35	33	31	28	26	22
5	67	56	48	42	61	52	45	39	43	38	34	35	31	28	28	25	23	19
6	62	50	42	37	56	46	39	34	39	33	29	32	28	25	25	22	20	17
7	57	45	38	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15
8	53	41	34	28	48	38	31	27	32	27	23	26	22	20	21	18	16	14
9	49	38	30	25	45	35	28	24	29	24	21	24	20	18	19	17	15	12
10	46	34	27	23	42	32	25	21	27	22	19	22	19	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8388	8388	8388
5°	8464	8398	8355
10°	8437	8378	8334
15°	8400	8347	8302
20°	8357	8303	8242
25°	8299	8243	8147
30°	8209	8150	8034
35°	8088	8017	7903
40°	7903	7818	7677
45°	7581	7448	7295
50°	7014	6845	6710
55°	6121	5983	5857
60°	5158	5115	5014
65°	4462	4479	4445
70°	4098	4119	4119
75°	3935	3935	3964
80°	3703	3746	3703
85°	2985	3313	3313



TEST NUMBER: P564272

CATALOG NUMBER: SQ4-PR1-100U-075D-930-1D-UNV-STD-W-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.9	1.6
10°-20°	492.0	4.5
20°-30°	742.0	6.8
30°-40°	884.1	8.1
40°-50°	871.7	8.0
50°-60°	666.2	6.1
60°-70°	412.3	3.8
70°-80°	234.2	2.1
80°-90°	73.3	0.7
90°-100°	460.7	4.2
100°-110°	1271.9	11.6
110°-120°	1311.7	12.0
120°-130°	1054.1	9.6
130°-140°	828.4	7.6
140°-150°	635.3	5.8
150°-160°	456.6	4.2
160°-170°	279.2	2.6
170°-180°	94.1	0.9
0°-30°	1405.9	12.9
0°-40°	2290.1	20.9
0°-60°	3827.9	35.0
0°-90°	4547.5	41.6
90°-120°	3044.3	27.8
90°-150°	5562.0	50.8
90°-180°	6392.0	58.4
0°-180°	10939.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1818	1818	1818	1818	1818	
5°	1828	1808	1814	1807	1804	173
15°	1759	1740	1748	1742	1738	496
25°	1630	1610	1619	1602	1601	750
35°	1436	1419	1424	1405	1403	896
45°	1162	1147	1142	1121	1118	890
55°	761	749	744	731	728	682
65°	409	406	410	407	407	414
75°	221	221	221	222	222	233
85°	56	59	63	63	63	66
90°	3	6	13	14	16	7
95°	68	249	836	344	224	72
105°	227	350	1399	2136	2012	241
115°	406	491	1127	2231	2537	399
125°	557	634	1022	1729	2029	496
135°	670	743	993	1400	1579	519
145°	778	831	981	1192	1283	487
155°	877	906	973	1070	1103	404
165°	949	962	978	1015	1023	268
175°	984	985	979	993	990	93
180°	984	984	984	984	984	

TEST NUMBER: P564272

CATALOG NUMBER: SQ4-PR1-100U-075D-930-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1818.3	1818.3	1818.3	1818.3	1818.3
2.5°	1829.6	1813.6	1818.3	1814.3	1805.8
5°	1827.7	1807.8	1813.6	1807.3	1804.2
7.5°	1813.6	1794.0	1799.8	1793.5	1791.7
10°	1801.1	1782.7	1788.5	1782.2	1779.1
12.5°	1787.3	1767.7	1774.8	1767.2	1764.1
15°	1758.8	1740.4	1747.8	1741.5	1738.4
17.5°	1727.5	1707.9	1715.2	1707.9	1704.0
20°	1702.4	1684.0	1691.4	1680.4	1678.9
22.5°	1674.8	1656.5	1663.9	1649.1	1648.8
25°	1630.4	1610.4	1619.4	1602.1	1600.6
27.5°	1577.4	1559.0	1566.5	1548.9	1547.0
30°	1541.1	1522.7	1530.1	1511.3	1508.2
32.5°	1499.7	1482.6	1488.8	1469.9	1468.1
35°	1436.2	1419.3	1423.6	1404.8	1403.3
37.5°	1363.8	1348.5	1351.0	1330.2	1328.7
40°	1312.4	1297.1	1298.3	1276.4	1274.8
42.5°	1256.0	1240.7	1239.4	1217.5	1216.0
45°	1162.1	1146.8	1141.7	1121.3	1118.2
47.5°	1055.0	1039.6	1030.2	1013.6	1011.4
50°	977.3	962.0	953.8	939.6	935.0
52.5°	893.3	878.0	871.1	858.1	853.5
55°	761.1	748.9	743.9	731.3	728.3
57.5°	635.5	627.3	625.8	613.6	612.4
60°	559.1	554.5	554.4	543.5	543.5
62.5°	494.0	490.6	493.0	485.8	484.6
65°	408.8	405.7	410.3	407.2	407.2
67.5°	341.4	341.4	344.2	343.0	343.0
70°	303.8	303.8	305.4	305.4	305.4
72.5°	270.0	268.8	272.8	272.8	271.6
75°	220.8	220.8	220.8	222.4	222.4
77.5°	172.0	172.3	173.5	173.2	172.0
80°	139.4	140.9	141.0	139.4	139.4
82.5°	106.8	108.3	108.4	108.0	106.8
85°	56.4	59.4	62.6	62.6	62.6
87.5°	16.9	22.4	27.6	27.9	27.0
90°	3.1	6.2	12.6	14.2	15.7
92.5°	28.3	117.6	210.3	76.7	59.8
95°	67.7	249.3	835.8	343.6	223.5
97.5°	112.1	279.2	1238.1	953.2	690.4
100°	144.8	297.2	1386.7	1396.5	1134.9
102.5°	176.3	317.6	1415.7	1725.5	1477.4
105°	226.7	349.8	1399.3	2136.3	2011.6
107.5°	280.2	389.8	1321.2	2334.4	2379.9
110°	318.0	416.5	1260.8	2377.0	2524.7



TEST NUMBER: P564272

CATALOG NUMBER: SQ4-PR1-100U-075D-930-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	352.0	446.8	1204.1	2343.3	2561.3
115°	406.1	490.7	1127.0	2231.1	2537.3
117.5°	453.3	537.7	1076.3	2073.0	2421.5
120°	484.8	567.9	1056.2	1966.1	2317.0
122.5°	515.0	594.4	1039.8	1866.2	2198.6
125°	557.2	634.2	1021.5	1728.8	2028.9
127.5°	593.1	670.0	1010.8	1612.7	1871.5
130°	617.0	694.0	1005.8	1541.6	1777.1
132.5°	639.7	712.9	1000.8	1481.9	1695.2
135°	670.5	742.9	993.2	1400.2	1578.8
137.5°	705.2	771.0	989.4	1331.6	1484.0
140°	724.1	788.7	986.9	1285.9	1419.8
142.5°	745.5	805.2	984.4	1245.2	1363.1
145°	777.6	831.4	980.6	1192.0	1282.8
147.5°	808.4	855.5	977.2	1147.2	1217.7
150°	831.1	869.6	975.9	1120.4	1177.4
152.5°	848.7	884.7	974.6	1097.5	1144.6
155°	876.7	906.0	972.7	1069.5	1103.4
157.5°	902.5	925.0	973.1	1049.1	1072.2
160°	917.7	937.7	974.3	1037.7	1054.6
162.5°	930.3	947.8	975.6	1027.5	1040.7
165°	949.1	961.5	977.5	1015.4	1023.1
167.5°	963.6	971.0	979.0	1008.1	1010.5
170°	971.2	977.3	979.0	1004.2	1004.2
172.5°	977.5	981.2	979.0	999.2	997.9
175°	983.8	985.3	979.0	993.1	990.1
177.5°	986.3	985.1	978.7	987.5	985.0
180°	983.8	983.8	983.8	983.8	983.8

(END OF REPORT)