

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: P563405

Luminaire Tested: **SQ4-PP3-075U-075D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563405
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-075U-075D-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

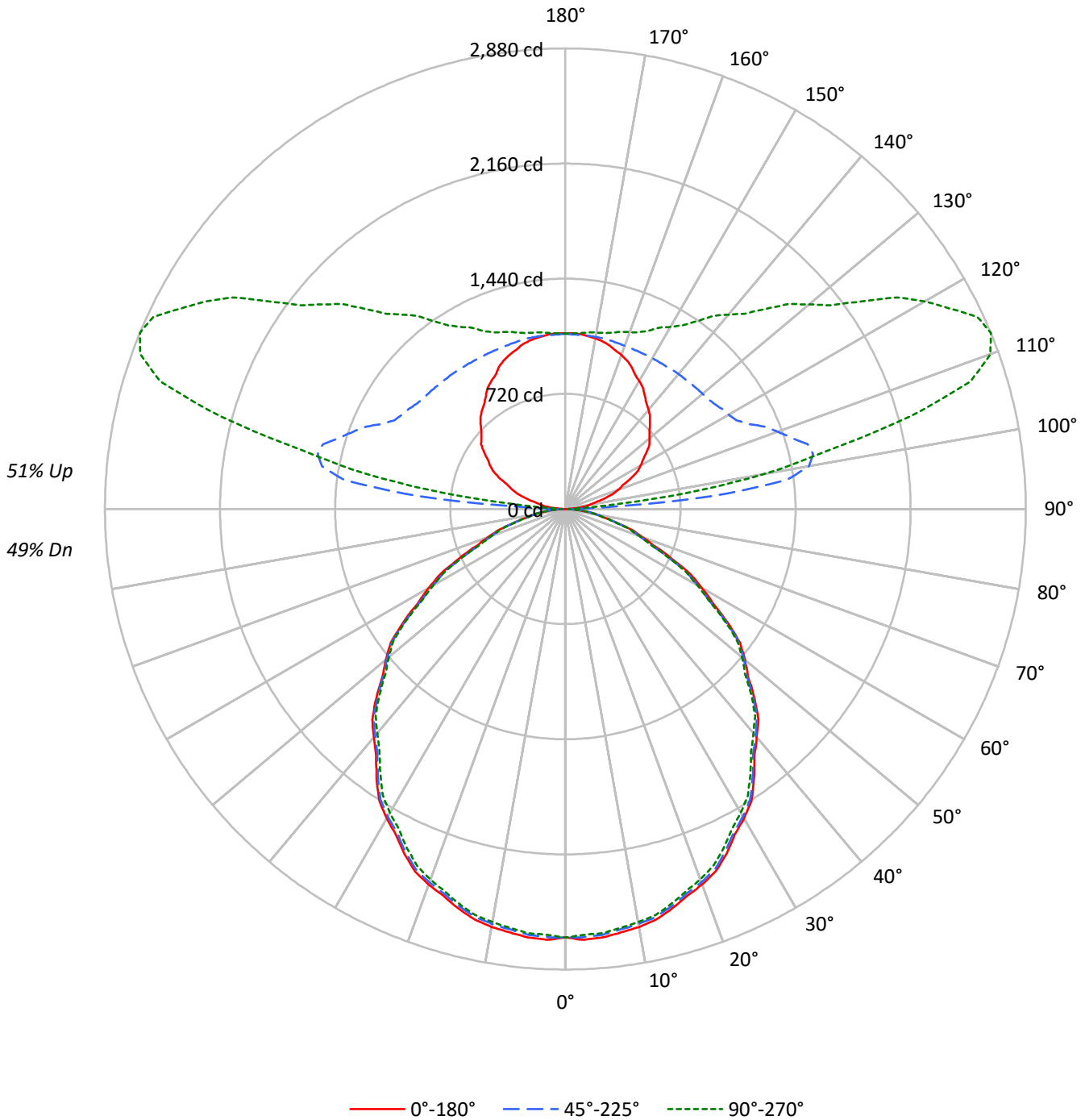
Lumens per Lamp: N/A
Luminaire Lumens: 14008.6 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 133.4
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



TEST NUMBER: P563405
CATALOG NUMBER: SQ4-PP3-075U-075D-930-1D-UNV-STD-W-12

Luminous Intensity Polar Plot





TEST NUMBER: P563405

CATALOG NUMBER: SQ4-PP3-075U-075D-930-1D-UNV-STD-W-12

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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	98	94	90	86	90	86	83	80	73	71	68	61	59	57	49	48	47	42
2	89	82	76	71	82	76	70	66	64	60	57	53	51	48	43	42	40	35
3	81	72	65	59	75	67	60	55	57	52	48	47	44	41	39	36	34	30
4	75	64	56	50	68	59	52	47	50	45	41	42	38	35	35	32	29	26
5	68	57	49	43	63	53	46	40	45	40	35	38	34	30	31	28	26	22
6	63	51	43	37	58	47	40	35	41	35	31	34	30	27	28	25	23	20
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20	18
8	54	42	34	29	50	39	32	27	34	28	24	28	24	21	24	20	18	16
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8241	8241	8241
5°	8302	8251	8222
10°	8288	8229	8193
15°	8233	8188	8143
20°	8179	8133	8071
25°	8081	8026	7946
30°	7932	7890	7790
35°	7724	7671	7574
40°	7477	7430	7345
45°	7273	7222	7151
50°	7012	6967	6900
55°	6649	6561	6511
60°	6053	5880	5851
65°	5333	5110	5093
70°	4604	4414	4414
75°	3963	3907	3851
80°	3494	3535	3452
85°	2735	2985	2985



TEST NUMBER: P563405

CATALOG NUMBER: SQ4-PP3-075U-075D-930-1D-UNV-STD-W-12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.4	1.8
10°-20°	723.6	5.2
20°-30°	1083.8	7.7
30°-40°	1271.2	9.1
40°-50°	1275.2	9.1
50°-60°	1087.8	7.8
60°-70°	709.5	5.1
70°-80°	355.9	2.5
80°-90°	101.3	0.7
90°-100°	517.4	3.7
100°-110°	1423.6	10.2
110°-120°	1469.4	10.5
120°-130°	1177.3	8.4
130°-140°	924.7	6.6
140°-150°	708.6	5.1
150°-160°	509.5	3.6
160°-170°	311.5	2.2
170°-180°	105.0	0.7
0°-30°	2060.7	14.7
0°-40°	3331.9	23.8
0°-60°	5695.0	40.7
0°-90°	6861.6	49.0
90°-120°	3410.4	24.3
90°-150°	6220.9	44.4
90°-180°	7147.0	51.0
0°-180°	14008.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2680	2680	2680	2680	2680	
5°	2689	2664	2673	2663	2663	255
15°	2586	2561	2572	2562	2558	730
25°	2382	2354	2365	2344	2342	1095
35°	2057	2037	2043	2020	2018	1285
45°	1672	1661	1660	1644	1644	1288
55°	1240	1236	1224	1217	1214	1102
65°	733	719	702	698	700	731
75°	334	334	329	326	324	362
85°	78	84	85	85	85	91
90°	2	9	16	21	21	8
95°	77	282	915	391	250	81
105°	254	391	1569	2389	2229	268
115°	450	549	1258	2505	2843	445
125°	621	708	1141	1931	2262	554
135°	749	831	1109	1562	1767	578
145°	866	925	1092	1330	1433	543
155°	980	1012	1085	1196	1230	450
165°	1060	1073	1090	1135	1141	299
175°	1097	1099	1092	1106	1104	104
180°	1097	1097	1097	1097	1097	



TEST NUMBER: P563405

CATALOG NUMBER: SQ4-PP3-075U-075D-930-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2679.8	2679.8	2679.8	2679.8	2679.8
2.5°	2696.7	2674.7	2679.8	2675.8	2664.8
5°	2689.2	2664.0	2672.8	2663.4	2663.4
7.5°	2670.9	2643.3	2652.1	2642.7	2642.2
10°	2654.0	2626.4	2635.2	2625.8	2623.5
12.5°	2629.6	2602.0	2612.7	2601.4	2600.9
15°	2585.9	2560.6	2571.8	2562.3	2557.7
17.5°	2536.6	2509.0	2522.5	2509.3	2507.4
20°	2499.0	2471.4	2484.9	2466.1	2466.1
22.5°	2453.9	2426.3	2441.7	2417.2	2417.2
25°	2381.5	2354.0	2365.1	2343.9	2341.6
27.5°	2295.6	2268.5	2280.1	2256.1	2255.7
30°	2233.6	2208.3	2221.8	2195.9	2193.6
32.5°	2165.9	2142.5	2152.3	2126.4	2124.1
35°	2057.4	2036.8	2043.3	2019.8	2017.5
37.5°	1943.3	1922.2	1929.7	1909.4	1908.5
40°	1862.5	1848.7	1850.7	1834.2	1829.6
42.5°	1787.3	1771.7	1773.7	1757.2	1756.3
45°	1672.2	1660.8	1660.5	1644.1	1644.1
47.5°	1550.1	1541.4	1538.8	1525.2	1524.8
50°	1465.6	1458.7	1456.2	1444.4	1442.1
52.5°	1377.3	1374.0	1366.0	1356.1	1355.6
55°	1240.1	1235.5	1223.7	1216.6	1214.3
57.5°	1091.2	1082.0	1068.6	1058.3	1060.2
60°	984.1	974.9	955.9	951.2	951.2
62.5°	880.7	869.7	850.7	844.2	847.9
65°	732.8	719.0	702.2	697.6	699.9
67.5°	598.4	586.0	567.9	567.9	566.0
70°	512.0	505.1	490.9	490.9	490.9
72.5°	435.0	431.8	421.3	421.3	419.5
75°	333.5	333.5	328.8	326.4	324.1
77.5°	249.9	250.8	248.5	246.0	241.9
80°	197.3	201.9	199.6	197.2	194.9
82.5°	148.4	153.0	152.7	148.4	148.0
85°	77.5	84.4	84.6	84.6	84.6
87.5°	21.1	29.9	33.3	34.3	36.1
90°	2.3	9.2	16.3	21.0	21.0
92.5°	32.2	137.7	238.6	91.6	75.2
95°	77.0	282.4	915.0	391.3	249.8
97.5°	125.6	313.2	1396.3	1075.9	759.1
100°	161.1	332.2	1547.6	1562.0	1274.5
102.5°	194.7	354.9	1586.8	1937.9	1674.1
105°	254.4	391.4	1568.6	2388.9	2229.1
107.5°	311.4	436.5	1479.4	2609.8	2657.2
110°	352.5	466.6	1412.2	2664.7	2829.0



TEST NUMBER: P563405

CATALOG NUMBER: SQ4-PP3-075U-075D-930-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	389.8	500.3	1345.0	2629.3	2879.5
115°	450.5	548.6	1258.1	2505.3	2843.0
117.5°	508.4	598.8	1203.0	2331.2	2713.3
120°	543.9	630.6	1178.8	2200.8	2595.6
122.5°	575.6	662.3	1162.0	2086.4	2461.2
125°	620.9	707.6	1141.4	1930.9	2261.8
127.5°	663.8	746.5	1127.9	1801.1	2091.4
130°	686.3	770.7	1120.4	1724.0	1988.7
132.5°	712.4	796.8	1114.8	1656.2	1895.4
135°	749.3	831.4	1108.7	1561.6	1767.0
137.5°	783.8	860.0	1103.6	1485.1	1654.5
140°	810.0	880.7	1101.7	1434.3	1587.2
142.5°	832.4	897.6	1098.0	1389.0	1520.0
145°	866.0	925.3	1092.4	1330.5	1433.2
147.5°	901.9	953.1	1089.6	1278.7	1360.8
150°	924.3	970.0	1087.7	1250.2	1314.1
152.5°	944.9	986.9	1085.9	1225.7	1278.7
155°	980.4	1012.3	1085.4	1195.9	1230.1
157.5°	1006.0	1032.1	1085.4	1171.4	1195.1
160°	1024.7	1045.2	1085.4	1158.2	1176.4
162.5°	1039.6	1056.5	1087.3	1146.9	1161.5
165°	1059.7	1073.4	1090.1	1134.6	1141.4
167.5°	1073.7	1084.2	1092.4	1124.2	1126.0
170°	1083.1	1089.9	1092.4	1120.4	1120.4
172.5°	1090.5	1093.7	1092.4	1114.8	1112.9
175°	1097.1	1099.3	1092.4	1106.4	1104.1
177.5°	1098.9	1098.9	1091.5	1102.6	1098.9
180°	1097.1	1097.1	1097.1	1097.1	1097.1

(END OF REPORT)