

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: P564068

Luminaire Tested: **SQ4-PR1-075U-075D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564068
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PR1-075U-075D-830-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

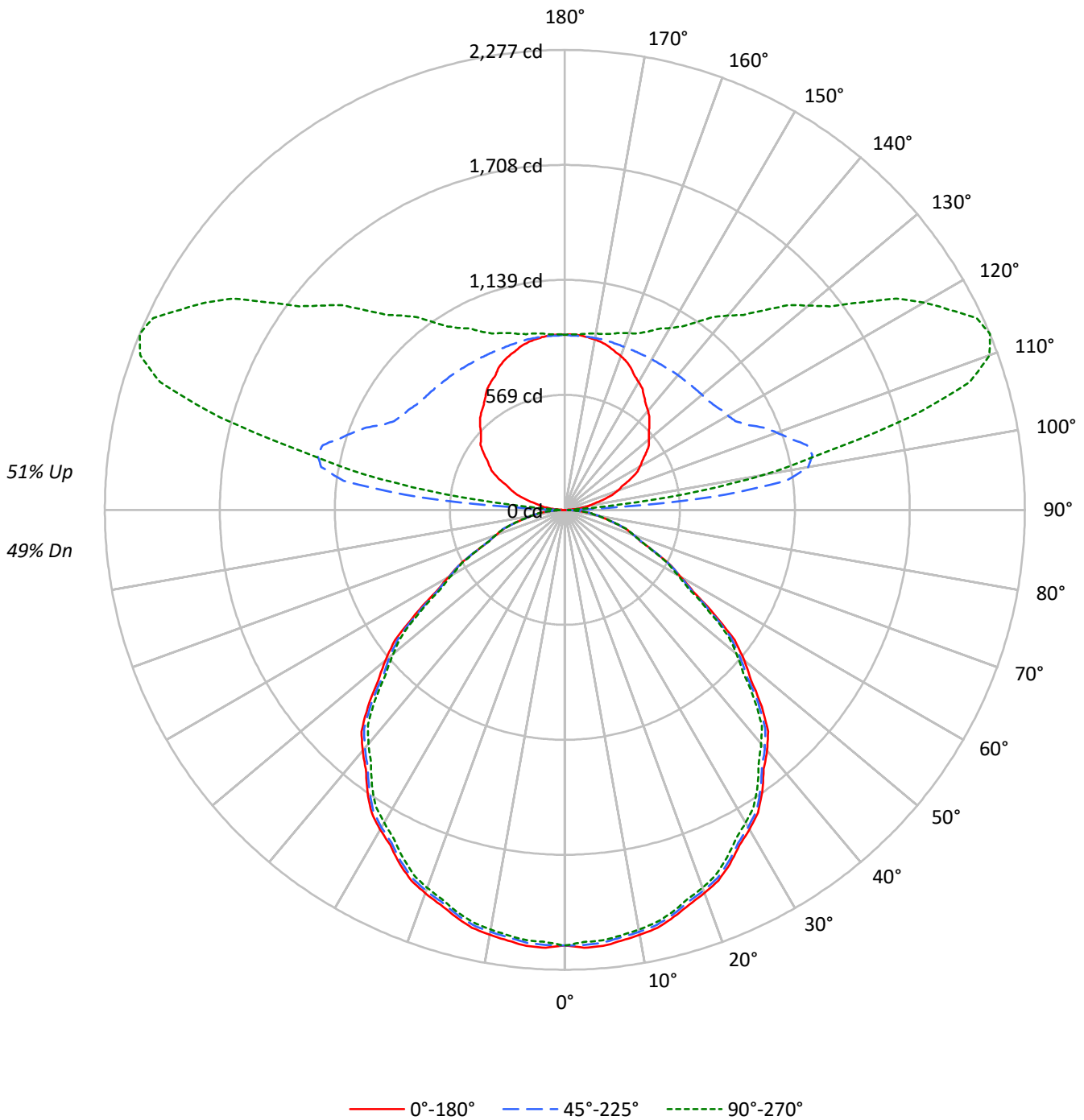
Lumens per Lamp: N/A
Luminaire Lumens: 11045.5 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 91
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: P564068
CATALOG NUMBER: SQ4-PR1-075U-075D-830-1D-UNV-STD-W-8

Luminous Intensity Polar Plot





TEST NUMBER: P564068

CATALOG NUMBER: SQ4-PR1-075U-075D-830-1D-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	50	30	10	0	
RCR																						
0	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49				49
1	98	94	90	86	90	86	83	80	73	71	68	60	59	57	49	48	47				47	42
2	89	82	76	71	82	76	71	66	64	60	57	53	51	48	44	42	40				40	35
3	82	72	65	59	75	67	61	56	57	52	48	47	44	41	39	36	34				34	30
4	75	64	56	50	69	59	53	47	51	45	41	42	39	36	35	32	30				30	26
5	69	57	49	43	63	53	46	41	45	40	36	38	34	31	31	28	26				26	23
6	63	51	43	38	58	48	41	36	41	35	31	35	30	27	29	25	23				23	20
7	59	46	39	33	54	43	36	31	37	32	28	31	27	24	26	23	21				21	18
8	54	42	35	29	50	39	32	28	34	28	25	29	25	21	24	21	18				18	16
9	51	39	31	26	47	36	29	25	31	26	22	26	22	19	22	19	17				17	14
10	47	35	28	23	44	33	27	22	29	23	20	24	20	17	21	17	15				15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9950	9950	9950
5°	10039	9962	9910
10°	10007	9938	9885
15°	9963	9901	9848
20°	9913	9849	9776
25°	9844	9777	9664
30°	9737	9668	9530
35°	9593	9509	9374
40°	9374	9274	9106
45°	8993	8835	8653
50°	8319	8119	7959
55°	7261	7097	6947
60°	6119	6067	5947
65°	5293	5313	5272
70°	4861	4887	4887
75°	4668	4668	4702
80°	4391	4442	4391
85°	3541	3933	3933



TEST NUMBER: P564068

CATALOG NUMBER: SQ4-PR1-075U-075D-830-1D-UNV-STD-W-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.0	1.8
10°-20°	583.5	5.3
20°-30°	880.2	8.0
30°-40°	1048.7	9.5
40°-50°	1033.9	9.4
50°-60°	790.2	7.2
60°-70°	489.0	4.4
70°-80°	277.7	2.5
80°-90°	86.7	0.8
90°-100°	409.2	3.7
100°-110°	1125.7	10.2
110°-120°	1161.9	10.5
120°-130°	931.0	8.4
130°-140°	731.2	6.6
140°-150°	560.3	5.1
150°-160°	402.9	3.6
160°-170°	246.4	2.2
170°-180°	83.0	0.8
0°-30°	1667.7	15.1
0°-40°	2716.4	24.6
0°-60°	4540.5	41.1
0°-90°	5393.9	48.8
90°-120°	2696.8	24.4
90°-150°	4919.3	44.5
90°-180°	5652.0	51.2
0°-180°	11045.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2157	2157	2157	2157	2157	
5°	2168	2144	2151	2144	2140	206
15°	2086	2064	2073	2066	2062	589
25°	1934	1910	1921	1900	1899	890
35°	1704	1684	1689	1666	1664	1063
45°	1378	1360	1354	1330	1326	1056
55°	903	888	882	868	864	809
65°	485	481	487	483	483	491
75°	262	262	262	264	264	277
85°	67	70	74	74	74	78
90°	2	7	13	17	17	7
95°	61	223	724	309	198	64
105°	201	310	1240	1889	1763	212
115°	356	434	995	1981	2248	352
125°	491	560	903	1527	1789	438
135°	592	658	877	1235	1397	457
145°	685	732	864	1052	1133	429
155°	775	800	858	946	973	356
165°	838	849	862	897	903	236
175°	868	869	864	875	873	82
180°	868	868	868	868	868	

TEST NUMBER: P564068

CATALOG NUMBER: SQ4-PR1-075U-075D-830-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2156.8	2156.8	2156.8	2156.8	2156.8
2.5°	2170.2	2151.3	2156.8	2152.1	2141.9
5°	2167.9	2144.3	2151.2	2143.7	2140.1
7.5°	2151.2	2128.0	2134.9	2127.4	2125.2
10°	2136.3	2114.6	2121.5	2114.0	2110.3
12.5°	2120.0	2096.7	2105.1	2096.1	2092.5
15°	2086.2	2064.4	2073.2	2065.7	2062.0
17.5°	2049.0	2025.8	2034.5	2025.9	2021.2
20°	2019.3	1997.5	2006.3	1993.3	1991.4
22.5°	1986.6	1964.8	1973.6	1956.1	1955.8
25°	1933.9	1910.2	1920.9	1900.4	1898.6
27.5°	1871.1	1849.3	1858.1	1837.2	1835.0
30°	1828.0	1806.2	1815.0	1792.6	1789.0
32.5°	1778.9	1758.6	1765.9	1743.6	1741.4
35°	1703.5	1683.5	1688.6	1666.3	1664.5
37.5°	1617.7	1599.5	1602.4	1577.9	1576.1
40°	1556.7	1538.6	1540.0	1514.0	1512.2
42.5°	1489.9	1471.7	1470.2	1444.1	1442.3
45°	1378.4	1360.2	1354.3	1330.0	1326.4
47.5°	1251.3	1233.2	1222.0	1202.2	1199.7
50°	1159.2	1141.0	1131.3	1114.5	1109.0
52.5°	1059.6	1041.5	1033.2	1017.9	1012.4
55°	902.8	888.3	882.4	867.5	863.8
57.5°	753.9	744.0	742.3	727.8	726.4
60°	663.2	657.7	657.6	644.6	644.6
62.5°	585.9	581.9	584.8	576.2	574.8
65°	484.9	481.2	486.7	483.0	483.0
67.5°	405.0	405.0	408.3	406.8	406.8
70°	360.4	360.4	362.3	362.3	362.3
72.5°	320.3	318.8	323.6	323.6	322.1
75°	261.9	261.9	261.9	263.8	263.8
77.5°	204.0	204.3	205.8	205.4	204.0
80°	165.3	167.2	167.2	165.3	165.3
82.5°	126.7	128.5	128.6	128.1	126.7
85°	66.9	70.5	74.3	74.3	74.3
87.5°	19.7	26.6	32.3	33.0	31.6
90°	1.8	7.3	12.9	16.6	16.6
92.5°	25.5	108.9	188.6	72.4	59.4
95°	60.9	223.3	723.6	309.4	197.5
97.5°	99.3	247.7	1104.2	850.8	600.3
100°	127.4	262.7	1223.8	1235.2	1007.8
102.5°	153.9	280.6	1254.8	1532.4	1323.8
105°	201.2	309.5	1240.4	1889.1	1762.7
107.5°	246.2	345.1	1169.9	2063.7	2101.3
110°	278.7	369.0	1116.7	2107.2	2237.1



TEST NUMBER: P564068

CATALOG NUMBER: SQ4-PR1-075U-075D-830-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	308.3	395.6	1063.6	2079.2	2277.0
115°	356.2	433.8	994.9	1981.1	2248.2
117.5°	402.0	473.5	951.3	1843.4	2145.6
120°	430.1	498.7	932.1	1740.3	2052.5
122.5°	455.2	523.8	918.8	1649.9	1946.2
125°	491.0	559.6	902.6	1526.9	1788.6
127.5°	524.9	590.3	891.9	1424.3	1653.8
130°	542.7	609.4	886.0	1363.3	1572.6
132.5°	563.3	630.1	881.6	1309.7	1498.8
135°	592.5	657.5	876.8	1234.8	1397.3
137.5°	619.8	680.1	872.7	1174.4	1308.3
140°	640.5	696.4	871.2	1134.2	1255.2
142.5°	658.2	709.8	868.3	1098.4	1202.0
145°	684.8	731.7	863.8	1052.1	1133.3
147.5°	713.2	753.6	861.6	1011.1	1076.1
150°	730.9	767.0	860.1	988.7	1039.2
152.5°	747.2	780.4	858.7	969.3	1011.1
155°	775.2	800.5	858.3	945.7	972.7
157.5°	795.5	816.1	858.3	926.3	945.1
160°	810.3	826.6	858.3	915.9	930.3
162.5°	822.1	835.5	859.8	906.9	918.5
165°	838.0	848.8	862.0	897.2	902.6
167.5°	849.1	857.4	863.8	889.0	890.4
170°	856.5	861.9	863.8	886.0	886.0
172.5°	862.4	864.9	863.8	881.5	880.1
175°	867.5	869.3	863.8	874.9	873.1
177.5°	869.0	869.0	863.1	871.9	869.0
180°	867.5	867.5	867.5	867.5	867.5

(END OF REPORT)