

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: P564365

Luminaire Tested: **SQ4-PR1-125U-075D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564365
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PR1-125U-075D-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

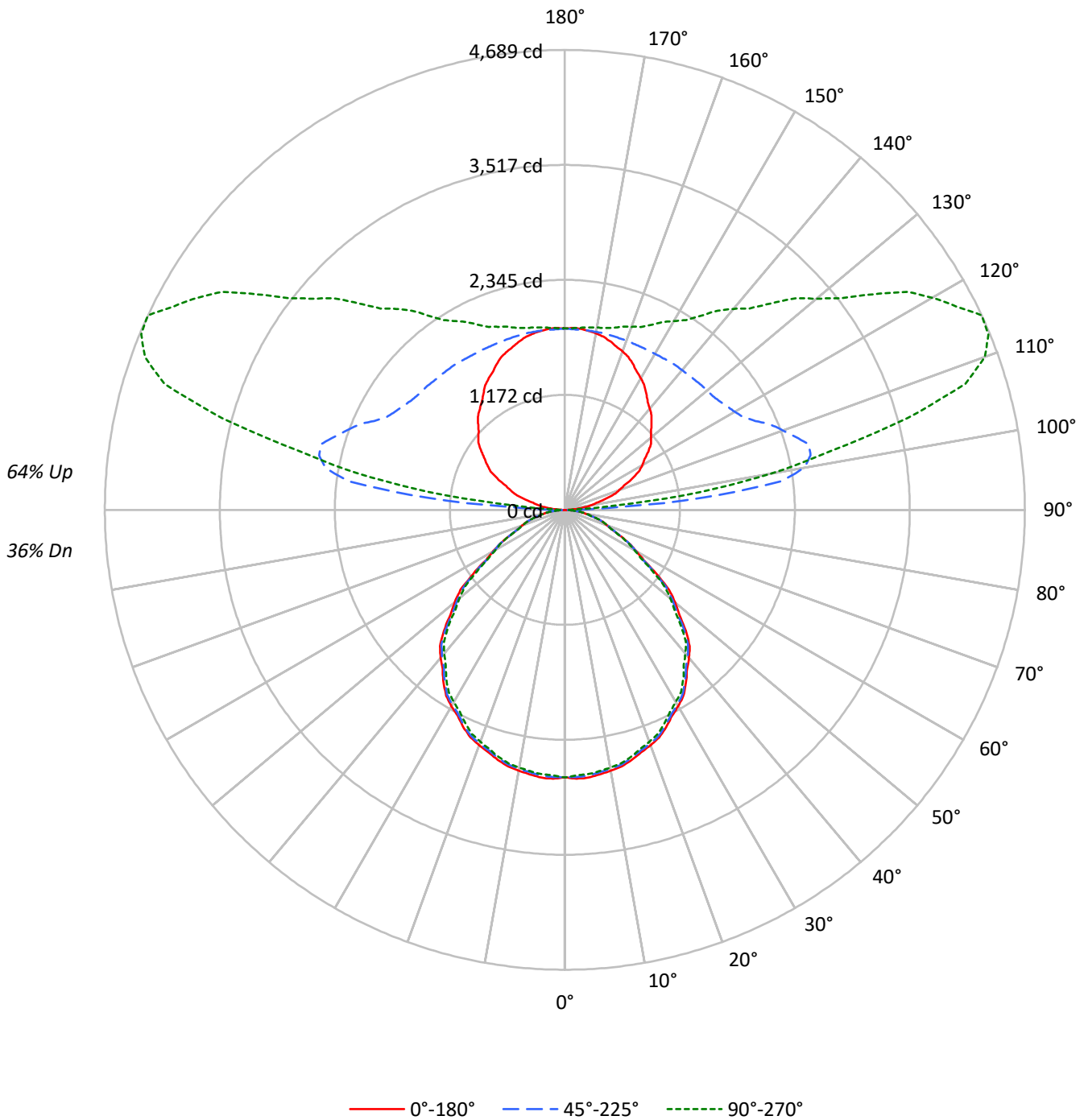
Lumens per Lamp: N/A
Luminaire Lumens: 18757.4 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 172.4
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: P564365
CATALOG NUMBER: SQ4-PR1-125U-075D-930-1D-UNV-STD-W-12

Luminous Intensity Polar Plot





TEST NUMBER: P564365

CATALOG NUMBER: SQ4-PR1-125U-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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	36
1	95	91	87	84	86	82	79	76	67	64	62	52	51	49	39	38	37	31
2	87	79	74	69	78	72	67	63	59	55	52	46	44	42	34	33	32	26
3	79	70	63	57	71	64	58	53	52	48	44	41	38	35	31	29	27	23
4	72	62	54	49	65	56	50	45	46	41	38	36	33	30	28	25	24	19
5	66	55	47	42	60	50	44	38	41	36	32	33	29	26	25	22	21	17
6	61	49	42	36	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	45	37	31	51	41	34	29	34	29	25	27	23	20	21	18	16	13
8	52	40	33	28	47	37	30	26	31	26	22	25	21	18	19	16	14	12
9	49	37	30	25	44	34	27	23	28	23	20	23	19	16	17	15	13	11
10	45	34	27	22	41	31	25	21	26	21	18	21	17	15	16	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8388	8388	8388
5°	8463	8398	8355
10°	8437	8378	8334
15°	8400	8347	8302
20°	8357	8303	8242
25°	8298	8243	8147
30°	8209	8151	8034
35°	8088	8017	7903
40°	7903	7819	7677
45°	7581	7449	7295
50°	7014	6845	6710
55°	6122	5983	5857
60°	5159	5115	5014
65°	4462	4479	4445
70°	4098	4119	4119
75°	3935	3935	3964
80°	3703	3744	3703
85°	2985	3317	3317



TEST NUMBER: P564365

CATALOG NUMBER: SQ4-PR1-125U-075D-930-1D-UNV-STD-W-12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.9	1.4
10°-20°	737.9	3.9
20°-30°	1113.0	5.9
30°-40°	1326.2	7.1
40°-50°	1307.5	7.0
50°-60°	999.3	5.3
60°-70°	618.4	3.3
70°-80°	351.2	1.9
80°-90°	111.2	0.6
90°-100°	864.9	4.6
100°-110°	2329.7	12.4
110°-120°	2444.9	13.0
120°-130°	1984.0	10.6
130°-140°	1556.0	8.3
140°-150°	1194.6	6.4
150°-160°	858.9	4.6
160°-170°	524.8	2.8
170°-180°	177.0	0.9
0°-30°	2108.9	11.2
0°-40°	3435.1	18.3
0°-60°	5741.8	30.6
0°-90°	6822.6	36.4
90°-120°	5639.5	30.1
90°-150°	10374.1	55.3
90°-180°	11935.0	63.6
0°-180°	18757.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2727	2727	2727	2727	2727	
5°	2742	2712	2720	2711	2706	260
15°	2638	2611	2622	2612	2608	744
25°	2446	2416	2429	2403	2401	1125
35°	2154	2129	2135	2107	2105	1344
45°	1743	1720	1713	1682	1677	1335
55°	1142	1123	1116	1097	1092	1023
65°	613	609	616	611	611	621
75°	331	331	331	334	334	350
85°	85	89	94	94	94	98
90°	5	14	28	31	31	13
95°	132	470	1418	725	502	138
105°	431	670	2576	3855	3617	453
115°	761	931	2146	4146	4689	749
125°	1039	1193	1926	3256	3832	927
135°	1251	1396	1872	2627	2974	965
145°	1446	1559	1849	2246	2412	907
155°	1642	1701	1832	2015	2080	756
165°	1780	1801	1839	1912	1922	502
175°	1851	1849	1842	1868	1863	176
180°	1849	1849	1849	1849	1849	



TEST NUMBER: P564365

CATALOG NUMBER: SQ4-PR1-125U-075D-930-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2727.4	2727.4	2727.4	2727.4	2727.4
2.5°	2744.3	2720.5	2727.4	2721.5	2708.6
5°	2741.5	2711.7	2720.4	2710.9	2706.3
7.5°	2720.4	2691.0	2699.7	2690.3	2687.5
10°	2701.6	2674.0	2682.8	2673.3	2668.7
12.5°	2680.9	2651.5	2662.1	2650.7	2646.2
15°	2638.2	2610.6	2621.7	2612.2	2607.6
17.5°	2591.2	2561.8	2572.9	2561.9	2555.9
20°	2553.6	2526.0	2537.1	2520.7	2518.4
22.5°	2512.2	2484.7	2495.8	2473.7	2473.3
25°	2445.5	2415.7	2429.1	2403.2	2400.9
27.5°	2366.1	2338.6	2349.7	2323.3	2320.6
30°	2311.6	2284.1	2295.2	2266.9	2262.3
32.5°	2249.6	2223.9	2233.2	2204.9	2202.2
35°	2154.2	2129.0	2135.4	2107.2	2104.9
37.5°	2045.7	2022.7	2026.4	1995.4	1993.1
40°	1968.6	1945.7	1947.5	1914.6	1912.3
42.5°	1884.1	1861.1	1859.2	1826.2	1823.9
45°	1743.1	1720.1	1712.6	1681.9	1677.3
47.5°	1582.4	1559.5	1545.3	1520.3	1517.1
50°	1465.9	1442.9	1430.7	1409.4	1402.5
52.5°	1340.0	1317.0	1306.6	1287.2	1280.3
55°	1141.7	1123.3	1115.9	1097.0	1092.4
57.5°	953.3	940.9	938.7	920.4	918.5
60°	838.7	831.8	831.6	815.2	815.2
62.5°	740.9	735.9	739.5	728.7	726.8
65°	613.1	608.6	615.5	610.8	610.8
67.5°	512.1	512.1	516.4	514.5	514.5
70°	455.7	455.7	458.1	458.1	458.1
72.5°	405.0	403.2	409.2	409.2	407.4
75°	331.2	331.2	331.2	333.6	333.6
77.5°	257.9	258.4	260.3	259.8	257.9
80°	209.1	211.4	211.4	209.1	209.1
82.5°	160.2	162.5	162.6	162.1	160.2
85°	84.6	89.2	94.0	94.0	94.0
87.5°	25.4	34.6	43.2	43.7	41.8
90°	4.7	13.9	28.3	30.6	30.6
92.5°	57.5	203.0	401.3	193.2	134.2
95°	131.9	470.4	1417.8	725.0	501.6
97.5°	210.5	538.5	2223.7	1857.7	1400.8
100°	270.8	565.6	2479.9	2594.7	2152.5
102.5°	329.2	603.7	2564.7	3146.6	2783.7
105°	431.0	670.5	2576.5	3854.6	3617.4
107.5°	527.1	740.8	2466.7	4218.4	4279.7
110°	591.1	793.8	2366.9	4331.4	4554.7



TEST NUMBER: P564365

CATALOG NUMBER: SQ4-PR1-125U-075D-930-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	659.0	846.9	2270.8	4306.4	4673.4
115°	760.7	931.1	2145.5	4145.5	4689.0
117.5°	853.5	1013.3	2048.5	3888.8	4494.0
120°	913.8	1068.1	1999.5	3704.5	4326.3
122.5°	966.5	1119.0	1963.7	3516.1	4136.0
125°	1038.6	1192.9	1926.5	3256.0	3831.7
127.5°	1107.8	1259.8	1902.9	3026.7	3540.6
130°	1149.3	1301.3	1893.5	2895.2	3346.6
132.5°	1190.7	1340.9	1884.1	2779.5	3194.0
135°	1250.6	1395.6	1872.3	2626.8	2974.5
137.5°	1307.5	1446.6	1866.2	2497.2	2782.8
140°	1347.1	1480.7	1860.5	2417.5	2675.4
142.5°	1388.6	1512.9	1856.7	2343.1	2560.4
145°	1446.0	1558.9	1848.7	2245.8	2411.6
147.5°	1508.2	1606.3	1840.7	2164.0	2294.3
150°	1549.6	1634.8	1837.0	2112.6	2220.8
152.5°	1587.3	1661.5	1835.1	2070.7	2158.7
155°	1641.5	1701.4	1832.3	2015.1	2079.5
157.5°	1689.1	1735.6	1832.7	1976.0	2019.2
160°	1719.2	1758.4	1834.6	1953.1	1985.3
162.5°	1745.6	1777.4	1836.5	1934.0	1957.1
165°	1780.4	1801.2	1839.3	1912.5	1921.7
167.5°	1808.7	1820.7	1841.7	1895.9	1899.6
170°	1827.5	1832.2	1841.7	1886.4	1886.4
172.5°	1838.9	1839.8	1843.6	1877.0	1877.0
175°	1851.1	1848.8	1841.7	1867.5	1862.9
177.5°	1856.3	1852.6	1843.1	1858.1	1854.4
180°	1848.7	1848.7	1848.7	1848.7	1848.7

(END OF REPORT)