

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: P563669

Luminaire Tested: **SQ4-PP3-125U-050D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563669
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PP3-125U-050D-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

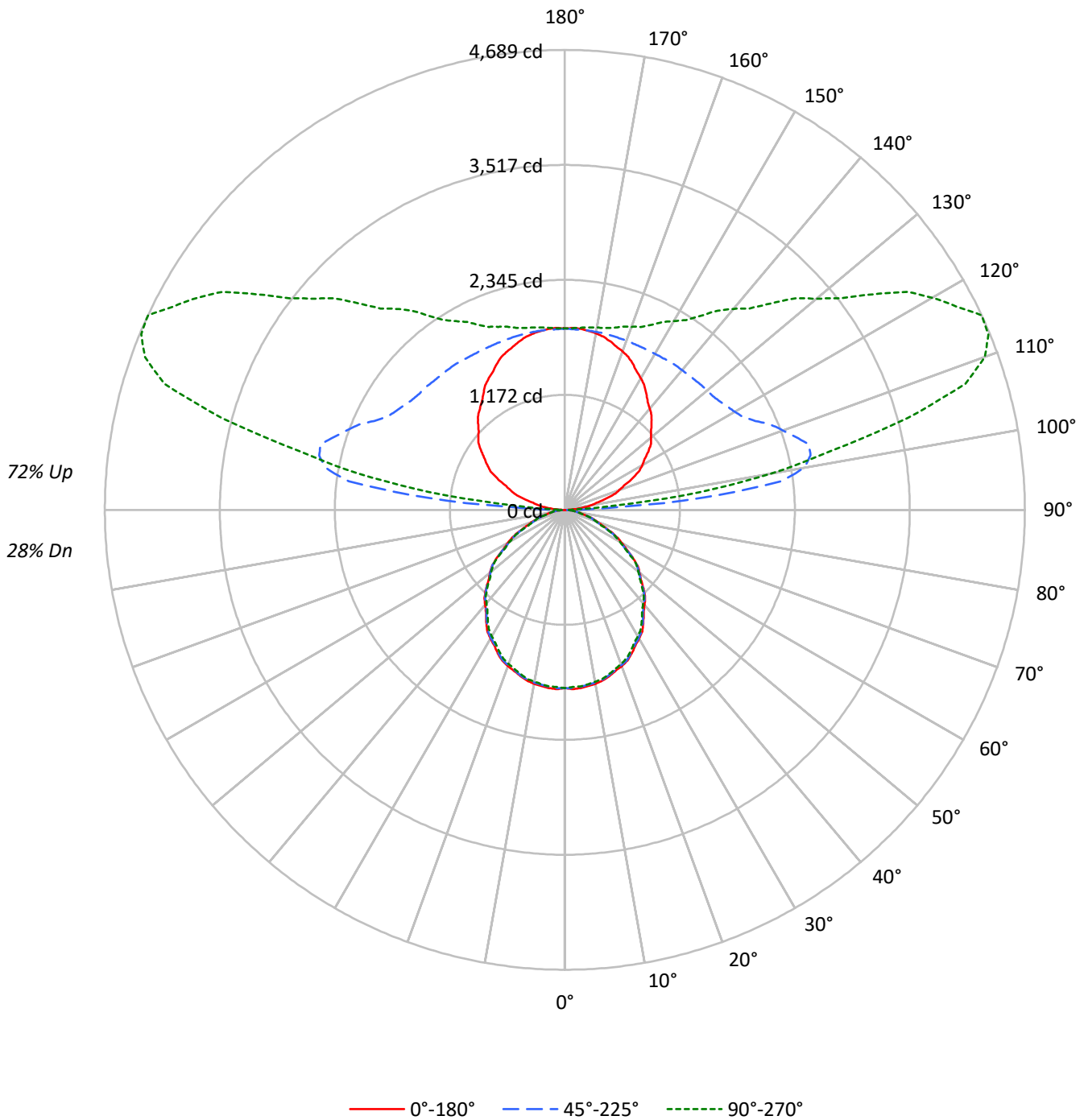
Lumens per Lamp: N/A
Luminaire Lumens: 16592.7 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 146.4
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: P563669
CATALOG NUMBER: SQ4-PP3-125U-050D-930-1D-UNV-STD-W-12

Luminous Intensity Polar Plot





TEST NUMBER: P563669

CATALOG NUMBER: SQ4-PP3-125U-050D-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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28
1	93	89	85	82	83	80	77	74	62	60	58	47	45	44	32	31	31	24
2	85	78	72	67	76	70	65	61	55	51	48	41	39	37	28	27	26	20
3	77	68	61	56	69	61	55	51	48	44	41	36	34	31	25	23	22	17
4	71	60	53	47	63	54	48	43	43	38	35	32	29	27	22	21	19	15
5	65	54	46	40	58	48	42	37	38	33	30	29	26	23	20	18	17	13
6	60	48	40	35	53	43	37	32	34	29	26	26	23	20	18	16	15	11
7	55	43	36	30	49	39	32	28	31	26	23	24	20	18	17	15	13	10
8	51	39	32	26	45	35	29	24	28	23	20	22	18	16	15	13	12	9
9	47	35	28	23	42	32	26	22	26	21	18	20	16	14	14	12	10	8
10	44	32	25	21	39	29	23	19	24	19	16	18	15	13	13	11	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5592	5592	5592
5°	5633	5598	5578
10°	5623	5583	5559
15°	5586	5556	5525
20°	5549	5518	5476
25°	5483	5445	5391
30°	5381	5353	5285
35°	5241	5205	5139
40°	5073	5041	4984
45°	4935	4900	4852
50°	4758	4727	4681
55°	4511	4451	4417
60°	4107	3989	3970
65°	3618	3467	3456
70°	3124	2994	2994
75°	2689	2651	2613
80°	2371	2398	2343
85°	1856	2025	2025



TEST NUMBER: P563669

CATALOG NUMBER: SQ4-PP3-125U-050D-930-1D-UNV-STD-W-12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.9	1.0
10°-20°	490.9	3.0
20°-30°	735.3	4.4
30°-40°	862.5	5.2
40°-50°	865.2	5.2
50°-60°	738.1	4.4
60°-70°	481.4	2.9
70°-80°	241.5	1.5
80°-90°	71.2	0.4
90°-100°	864.9	5.2
100°-110°	2329.7	14.0
110°-120°	2444.9	14.7
120°-130°	1984.0	12.0
130°-140°	1556.0	9.4
140°-150°	1194.6	7.2
150°-160°	858.9	5.2
160°-170°	524.8	3.2
170°-180°	177.0	1.1
0°-30°	1398.2	8.4
0°-40°	2260.6	13.6
0°-60°	3863.9	23.3
0°-90°	4657.9	28.1
90°-120°	5639.5	34.0
90°-150°	10374.1	62.5
90°-180°	11935.0	71.9
0°-180°	16592.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1818	1818	1818	1818	1818	
5°	1825	1807	1813	1807	1807	173
15°	1754	1737	1745	1738	1735	495
25°	1616	1597	1605	1590	1589	743
35°	1396	1382	1386	1370	1369	872
45°	1135	1127	1127	1116	1116	874
55°	841	838	830	825	824	748
65°	497	488	476	473	475	496
75°	226	226	223	222	220	246
85°	53	57	57	57	57	62
90°	5	14	28	31	31	11
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: P563669

CATALOG NUMBER: SQ4-PP3-125U-050D-930-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1818.2	1818.2	1818.2	1818.2	1818.2
2.5°	1829.7	1814.7	1818.2	1815.5	1808.0
5°	1824.6	1807.4	1813.4	1807.0	1807.0
7.5°	1812.1	1793.5	1799.4	1793.0	1792.7
10°	1800.7	1782.0	1787.9	1781.5	1780.0
12.5°	1784.1	1765.4	1772.6	1765.0	1764.7
15°	1754.5	1737.3	1744.9	1738.5	1735.3
17.5°	1721.0	1702.3	1711.4	1702.5	1701.2
20°	1695.5	1676.8	1685.9	1673.2	1673.2
22.5°	1664.9	1646.2	1656.6	1640.0	1640.0
25°	1615.8	1597.1	1604.7	1590.3	1588.7
27.5°	1557.5	1539.1	1547.0	1530.7	1530.4
30°	1515.4	1498.3	1507.5	1489.9	1488.3
32.5°	1469.5	1453.6	1460.3	1442.7	1441.2
35°	1395.9	1381.9	1386.4	1370.4	1368.8
37.5°	1318.5	1304.1	1309.2	1295.5	1294.9
40°	1263.7	1254.3	1255.7	1244.5	1241.4
42.5°	1212.7	1202.1	1203.4	1192.3	1191.6
45°	1134.6	1126.8	1126.6	1115.5	1115.5
47.5°	1051.7	1045.8	1044.1	1034.8	1034.5
50°	994.4	989.7	988.0	980.0	978.4
52.5°	934.4	932.3	926.8	920.1	919.8
55°	841.4	838.3	830.2	825.4	823.8
57.5°	740.3	734.1	725.1	718.1	719.3
60°	667.7	661.5	648.6	645.4	645.4
62.5°	597.6	590.1	577.2	572.8	575.3
65°	497.2	487.8	476.5	473.3	474.9
67.5°	406.0	397.6	385.3	385.3	384.0
70°	347.4	342.7	333.0	333.0	333.0
72.5°	295.1	292.9	285.9	285.8	284.6
75°	226.3	226.3	223.1	221.5	219.9
77.5°	169.6	170.2	168.6	166.9	164.1
80°	133.9	137.0	135.4	133.8	132.3
82.5°	100.7	103.8	103.6	100.7	100.4
85°	52.6	57.3	57.4	57.4	57.4
87.5°	15.0	21.8	26.0	26.5	27.8
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: P563669

CATALOG NUMBER: SQ4-PP3-125U-050D-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)