

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: P562997

Luminaire Tested: **SQ4-PC3-125U-050D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562997
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-125U-050D-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID 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: 16637.1 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

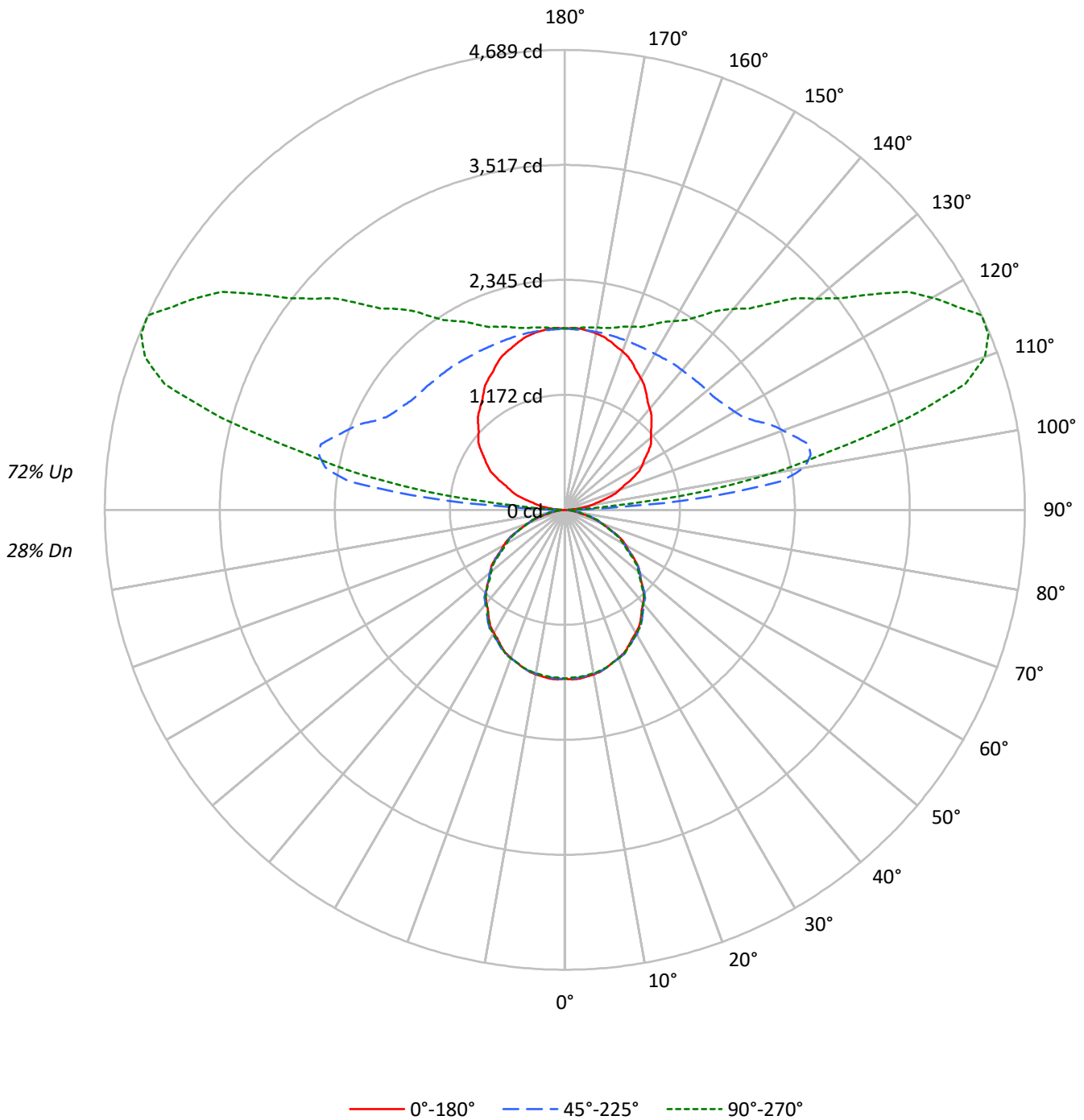
Input Watts (W): 146.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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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	76	74	62	60	58	47	45	44	32	31	31	24
2	85	77	72	67	75	70	65	60	55	51	48	41	39	37	28	27	26	20
3	77	68	61	55	69	61	55	50	48	44	40	36	33	31	25	23	22	17
4	70	60	52	47	63	54	48	43	43	38	34	32	29	26	22	20	19	14
5	65	53	46	40	57	48	41	36	38	33	29	29	25	23	20	18	16	13
6	59	48	40	34	53	43	36	31	34	29	26	26	22	20	18	16	14	11
7	55	43	35	30	49	39	32	27	31	26	22	23	20	17	16	14	13	10
8	51	39	31	26	45	35	29	24	28	23	20	21	18	15	15	13	11	9
9	47	35	28	23	42	32	26	21	26	21	17	20	16	14	14	12	10	8
10	44	32	25	21	39	29	23	19	23	19	16	18	15	12	13	11	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5294	5294	5294
5°	5334	5299	5280
10°	5321	5296	5281
15°	5293	5293	5288
20°	5258	5274	5274
25°	5208	5246	5230
30°	5145	5207	5185
35°	5068	5146	5110
40°	4985	5055	5004
45°	4894	4929	4852
50°	4766	4766	4690
55°	4615	4555	4487
60°	4392	4304	4235
65°	4060	3978	3943
70°	3554	3583	3569
75°	2860	3163	3182
80°	2033	2681	2710
85°	1239	2251	2251



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.9	1.0
10°-20°	467.5	2.8
20°-30°	708.0	4.3
30°-40°	848.8	5.1
40°-50°	865.5	5.2
50°-60°	755.5	4.5
60°-70°	540.9	3.3
70°-80°	278.6	1.7
80°-90°	74.8	0.4
90°-100°	864.9	5.2
100°-110°	2329.7	14.0
110°-120°	2444.9	14.7
120°-130°	1984.0	11.9
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°	1338.4	8.0
0°-40°	2187.2	13.1
0°-60°	3808.2	22.9
0°-90°	4702.4	28.3
90°-120°	5639.5	33.9
90°-150°	10374.1	62.4
90°-180°	11935.0	71.7
0°-180°	16637.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1721	1721	1721	1721	1721	
5°	1728	1711	1717	1712	1710	164
15°	1662	1648	1662	1662	1661	469
25°	1535	1524	1546	1541	1541	706
35°	1350	1347	1371	1361	1361	844
45°	1125	1122	1133	1119	1116	866
55°	861	850	850	837	837	767
65°	558	545	547	542	542	552
75°	241	252	266	268	268	260
85°	35	54	64	65	64	48
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: P562997

CATALOG NUMBER: SQ4-PC3-125U-050D-930-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1721.4	1721.4	1721.4	1721.4	1721.4
2.5°	1731.6	1716.6	1721.4	1717.4	1711.2
5°	1727.8	1710.6	1716.6	1711.8	1710.2
7.5°	1715.4	1698.2	1706.1	1702.9	1701.3
10°	1703.9	1686.7	1695.9	1692.7	1691.1
12.5°	1688.6	1672.7	1683.2	1680.0	1679.6
15°	1662.4	1648.4	1662.4	1662.4	1660.8
17.5°	1629.6	1616.8	1631.8	1632.8	1631.8
20°	1606.6	1592.6	1611.4	1609.9	1611.4
22.5°	1578.6	1567.1	1587.2	1583.1	1584.7
25°	1534.9	1524.0	1546.1	1541.3	1541.3
27.5°	1483.3	1475.5	1499.5	1494.4	1494.4
30°	1448.9	1441.1	1466.4	1460.0	1460.0
32.5°	1410.6	1405.3	1429.4	1421.8	1421.8
35°	1350.0	1346.9	1370.7	1361.2	1361.2
37.5°	1287.5	1284.7	1306.4	1294.8	1291.1
40°	1241.6	1240.1	1259.2	1246.4	1246.4
42.5°	1195.7	1194.2	1210.7	1195.4	1195.4
45°	1125.3	1122.2	1133.3	1118.8	1115.7
47.5°	1048.5	1045.3	1052.3	1036.6	1035.1
50°	996.2	993.1	996.2	981.8	980.2
52.5°	942.6	937.0	937.5	923.2	922.9
55°	860.7	849.8	849.5	836.8	836.8
57.5°	774.0	759.7	760.9	750.1	748.5
60°	714.1	698.5	699.7	690.1	688.6
62.5°	655.4	637.3	641.1	630.2	629.9
65°	557.9	545.4	546.7	541.9	541.9
67.5°	464.1	452.6	461.0	457.1	456.8
70°	395.3	387.5	398.5	398.4	396.9
72.5°	331.5	331.2	344.9	344.9	345.9
75°	240.7	251.6	266.2	267.8	267.8
77.5°	160.7	180.0	196.0	196.7	196.4
80°	114.8	136.6	151.4	154.6	153.0
82.5°	77.8	100.8	113.2	116.3	114.8
85°	35.1	53.8	63.8	65.3	63.8
87.5°	11.1	24.2	31.2	31.6	29.1
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: P562997

CATALOG NUMBER: SQ4-PC3-125U-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)