

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: P563028

Luminaire Tested: **SQ4-PC3-125U-075D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563028
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-075D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

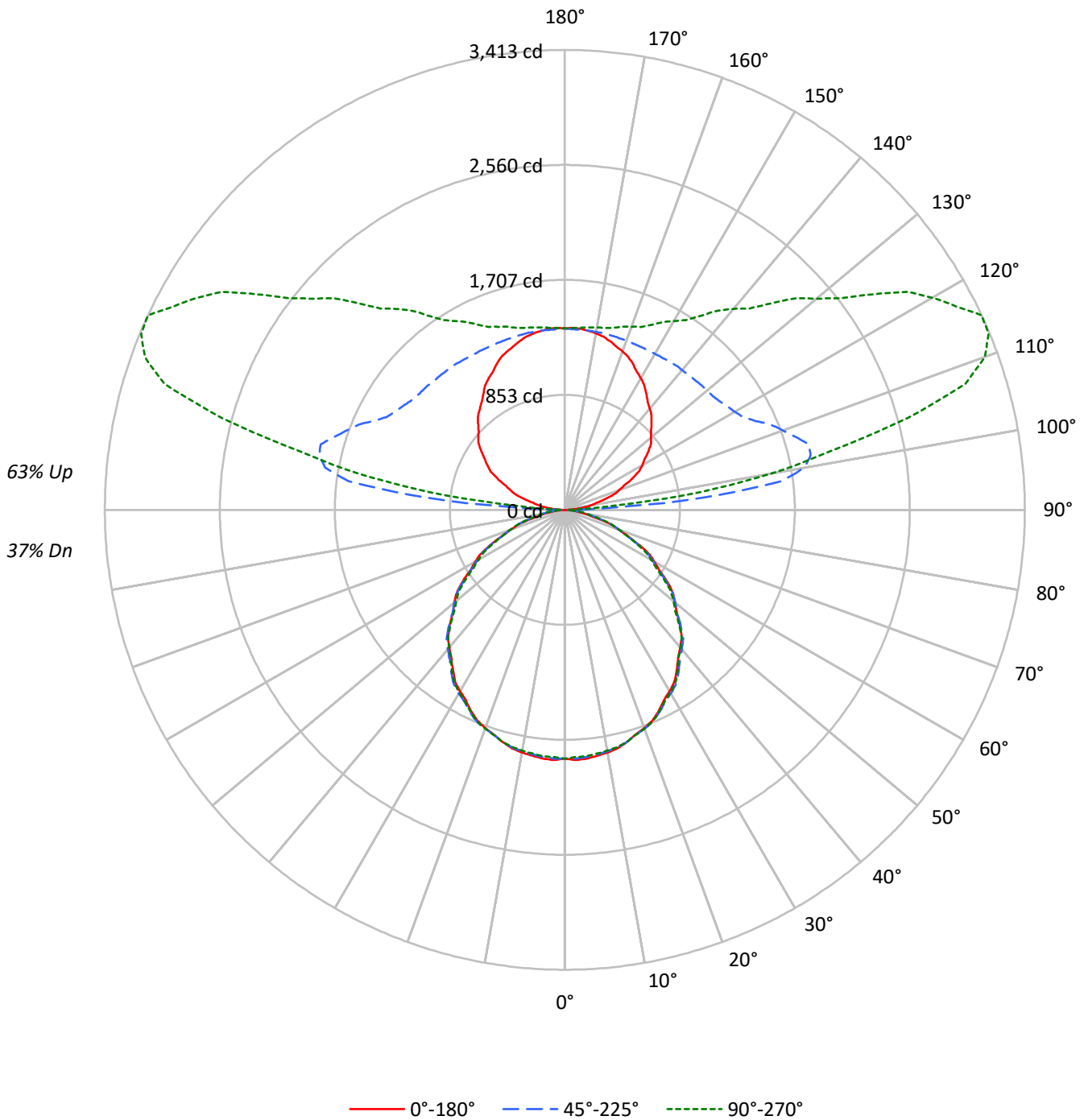
Lumens per Lamp: N/A
Luminaire Lumens: 13731.4 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 116
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: P563028
CATALOG NUMBER: SQ4-PC3-125U-075D-935-1D-UNV-STD-W-8

Luminous Intensity Polar Plot





TEST NUMBER: P563028

CATALOG NUMBER: SQ4-PC3-125U-075D-935-1D-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	0
RCR																		
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37
1	95	91	87	83	86	82	79	76	67	64	62	52	51	49	39	38	37	31
2	86	79	73	68	78	72	67	62	58	55	52	46	43	41	34	33	31	26
3	79	69	62	57	71	63	57	52	51	47	43	40	37	35	30	28	27	22
4	72	61	54	48	65	56	49	44	46	41	37	36	33	30	27	25	23	19
5	66	55	47	41	59	50	43	38	41	36	32	32	29	26	24	22	20	16
6	61	49	41	35	55	45	38	33	37	31	27	29	25	22	22	19	17	14
7	56	44	36	31	51	40	33	28	33	28	24	26	23	20	20	17	15	13
8	52	40	32	27	47	36	30	25	30	25	21	24	20	18	18	16	14	11
9	48	36	29	24	44	33	27	22	27	22	19	22	18	16	17	14	12	10
10	45	33	26	21	41	30	24	20	25	20	17	20	17	14	16	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8520	8520	8520
5°	8584	8529	8497
10°	8563	8523	8499
15°	8518	8518	8510
20°	8462	8487	8487
25°	8382	8443	8417
30°	8280	8381	8344
35°	8157	8282	8224
40°	8022	8136	8053
45°	7876	7932	7810
50°	7670	7670	7548
55°	7427	7331	7221
60°	7068	6926	6816
65°	6533	6403	6346
70°	5720	5766	5743
75°	4602	5090	5121
80°	3270	4317	4362
85°	1990	3620	3620



TEST NUMBER: P563028

CATALOG NUMBER: SQ4-PC3-125U-075D-935-1D-UNV-STD-W-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.8	1.3
10°-20°	501.6	3.7
20°-30°	759.6	5.5
30°-40°	910.7	6.6
40°-50°	928.6	6.8
50°-60°	810.6	5.9
60°-70°	580.3	4.2
70°-80°	298.9	2.2
80°-90°	78.7	0.6
90°-100°	629.6	4.6
100°-110°	1695.9	12.4
110°-120°	1779.8	13.0
120°-130°	1444.2	10.5
130°-140°	1132.7	8.2
140°-150°	869.6	6.3
150°-160°	625.2	4.6
160°-170°	382.0	2.8
170°-180°	128.8	0.9
0°-30°	1436.0	10.5
0°-40°	2346.6	17.1
0°-60°	4085.8	29.8
0°-90°	5043.7	36.7
90°-120°	4105.2	29.9
90°-150°	7551.7	55.0
90°-180°	8688.0	63.3
0°-180°	13731.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1847	1847	1847	1847	1847	
5°	1854	1835	1842	1837	1835	176
15°	1784	1769	1784	1784	1782	503
25°	1647	1635	1659	1654	1654	758
35°	1448	1445	1471	1460	1460	906
45°	1207	1204	1216	1200	1197	929
55°	923	912	912	898	898	823
65°	598	585	587	581	581	592
75°	258	270	286	287	287	279
85°	38	58	68	70	68	51
90°	3	10	21	22	22	8
95°	96	342	1032	528	365	100
105°	314	488	1876	2806	2633	330
115°	554	678	1562	3018	3413	545
125°	756	868	1402	2370	2789	675
135°	910	1016	1363	1912	2165	703
145°	1053	1135	1346	1635	1756	660
155°	1195	1238	1334	1467	1514	550
165°	1296	1311	1339	1392	1399	365
175°	1348	1346	1341	1359	1356	128
180°	1346	1346	1346	1346	1346	

TEST NUMBER: P563028

CATALOG NUMBER: SQ4-PC3-125U-075D-935-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1846.9	1846.9	1846.9	1846.9	1846.9
2.5°	1857.8	1841.8	1846.9	1842.6	1836.0
5°	1853.7	1835.3	1841.8	1836.6	1834.9
7.5°	1840.4	1822.0	1830.5	1827.0	1825.3
10°	1828.1	1809.7	1819.5	1816.1	1814.4
12.5°	1811.7	1794.6	1805.9	1802.4	1802.1
15°	1783.6	1768.6	1783.6	1783.6	1781.9
17.5°	1748.4	1734.7	1750.8	1751.8	1750.8
20°	1723.8	1708.7	1728.9	1727.2	1728.9
22.5°	1693.7	1681.3	1702.9	1698.5	1700.2
25°	1646.8	1635.1	1658.8	1653.7	1653.7
27.5°	1591.4	1583.0	1608.9	1603.4	1603.4
30°	1554.5	1546.1	1573.3	1566.4	1566.4
32.5°	1513.4	1507.7	1533.6	1525.4	1525.4
35°	1448.4	1445.1	1470.7	1460.4	1460.4
37.5°	1381.4	1378.4	1401.6	1389.2	1385.2
40°	1332.2	1330.5	1351.0	1337.3	1337.3
42.5°	1282.9	1281.2	1299.0	1282.6	1282.6
45°	1207.3	1204.0	1215.9	1200.4	1197.1
47.5°	1124.9	1121.6	1129.0	1112.2	1110.5
50°	1068.8	1065.5	1068.8	1053.4	1051.7
52.5°	1011.3	1005.3	1005.9	990.5	990.1
55°	923.4	911.7	911.5	897.8	897.8
57.5°	830.4	815.0	816.4	804.7	803.1
60°	766.1	749.4	750.7	740.4	738.8
62.5°	703.2	683.8	687.8	676.2	675.8
65°	598.5	585.2	586.6	581.4	581.4
67.5°	498.0	485.6	494.6	490.4	490.1
70°	424.1	415.7	427.5	427.5	425.8
72.5°	355.7	355.4	370.1	370.1	371.1
75°	258.2	269.9	285.6	287.3	287.3
77.5°	172.4	193.1	210.3	211.0	210.7
80°	123.1	146.5	162.5	165.8	164.2
82.5°	83.5	108.2	121.4	124.8	123.1
85°	37.6	57.7	68.4	70.1	68.4
87.5°	11.6	25.0	31.5	31.8	29.1
90°	3.4	10.1	20.6	22.3	22.3
92.5°	41.8	147.8	292.1	140.6	97.7
95°	96.0	342.4	1032.0	527.8	365.2
97.5°	153.3	392.0	1618.7	1352.3	1019.7
100°	197.2	411.7	1805.2	1888.8	1566.9
102.5°	239.7	439.5	1866.9	2290.6	2026.4
105°	313.7	488.1	1875.5	2805.9	2633.3
107.5°	383.7	539.2	1795.6	3070.7	3115.3
110°	430.3	577.8	1722.9	3153.0	3315.6

TEST NUMBER: P563028

CATALOG NUMBER: SQ4-PC3-125U-075D-935-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	479.7	616.5	1653.0	3134.8	3402.0
115°	553.7	677.8	1561.8	3017.7	3413.3
117.5°	621.3	737.6	1491.2	2830.8	3271.3
120°	665.2	777.5	1455.5	2696.7	3149.3
122.5°	703.6	814.5	1429.4	2559.5	3010.8
125°	756.0	868.3	1402.3	2370.2	2789.3
127.5°	806.4	917.1	1385.2	2203.2	2577.4
130°	836.6	947.2	1378.3	2107.6	2436.1
132.5°	866.8	976.1	1371.5	2023.3	2325.0
135°	910.3	1015.9	1362.9	1912.1	2165.2
137.5°	951.8	1053.1	1358.5	1817.8	2025.7
140°	980.6	1077.8	1354.3	1759.8	1947.5
142.5°	1010.8	1101.3	1351.6	1705.6	1863.9
145°	1052.6	1134.8	1345.8	1634.8	1755.5
147.5°	1097.9	1169.3	1339.9	1575.3	1670.1
150°	1128.0	1190.1	1337.2	1537.9	1616.6
152.5°	1155.5	1209.5	1335.8	1507.3	1571.4
155°	1194.9	1238.5	1333.8	1466.8	1513.8
157.5°	1229.5	1263.4	1334.1	1438.4	1469.9
160°	1251.5	1280.0	1335.5	1421.7	1445.2
162.5°	1270.7	1293.8	1336.9	1407.9	1424.6
165°	1296.1	1311.1	1338.9	1392.2	1398.9
167.5°	1316.6	1325.3	1340.6	1380.1	1382.8
170°	1330.3	1333.7	1340.6	1373.2	1373.2
172.5°	1338.6	1339.2	1342.0	1366.3	1366.3
175°	1347.5	1345.8	1340.6	1359.4	1356.1
177.5°	1351.3	1348.6	1341.7	1352.6	1349.9
180°	1345.8	1345.8	1345.8	1345.8	1345.8

(END OF REPORT)