

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: P563676

Luminaire Tested: **SQ4-PP3-125U-050D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563676
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-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

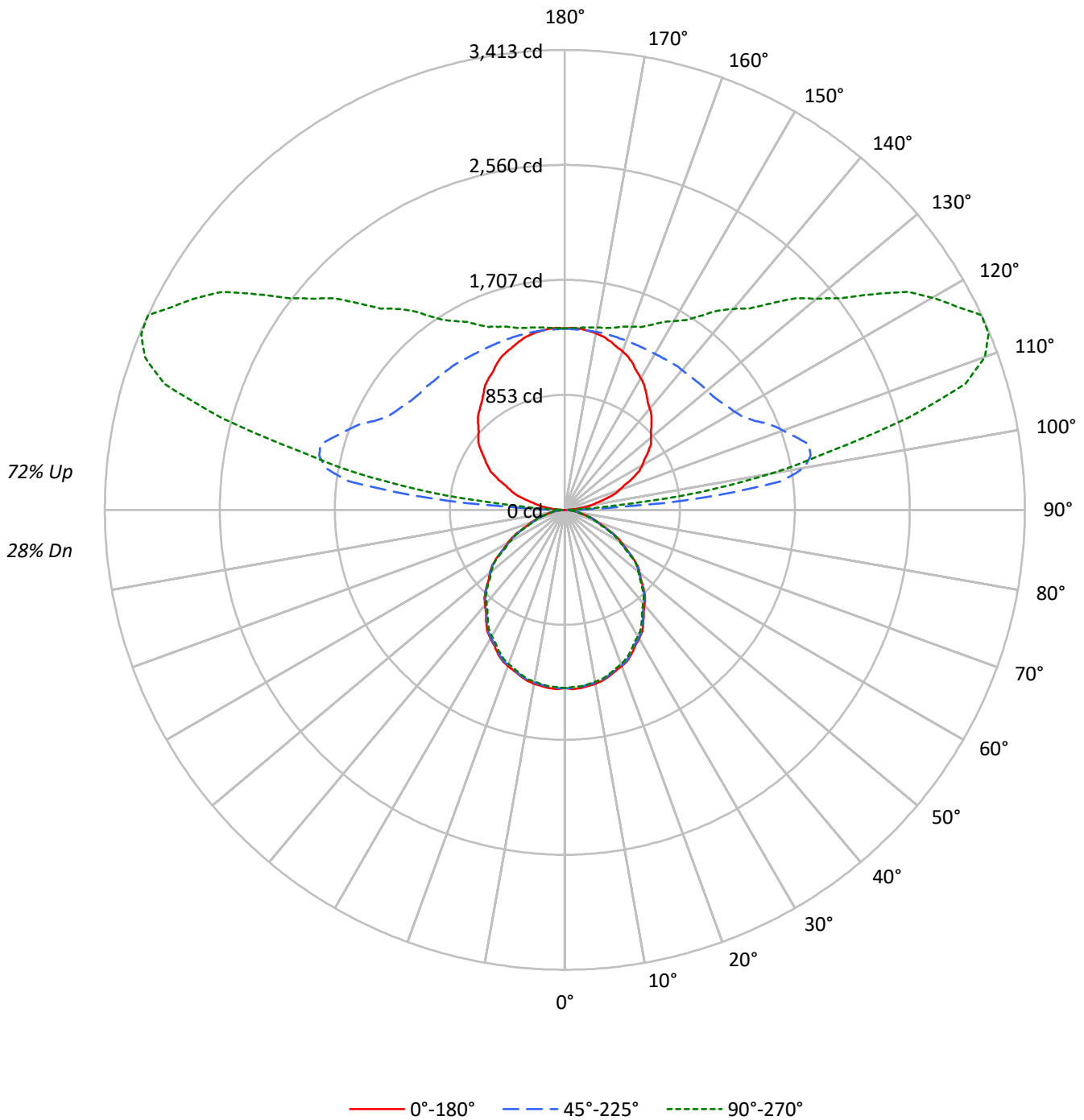
Lumens per Lamp: N/A
Luminaire Lumens: 12078.4 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 96.8
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: P563676
CATALOG NUMBER: SQ4-PP3-125U-050D-935-1D-UNV-STD-W-8

Luminous Intensity Polar Plot





TEST NUMBER: P563676

CATALOG NUMBER: SQ4-PP3-125U-050D-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	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°	6105	6105	6105
5°	6151	6113	6091
10°	6140	6097	6069
15°	6099	6066	6033
20°	6059	6025	5979
25°	5987	5946	5887
30°	5876	5845	5771
35°	5722	5683	5611
40°	5540	5505	5441
45°	5388	5350	5297
50°	5195	5161	5111
55°	4926	4861	4823
60°	4484	4356	4334
65°	3950	3786	3773
70°	3411	3269	3269
75°	2936	2895	2854
80°	2588	2619	2558
85°	2027	2212	2212



TEST NUMBER: P563676

CATALOG NUMBER: SQ4-PP3-125U-050D-935-1D-UNV-STD-W-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.2	1.0
10°-20°	357.4	3.0
20°-30°	535.3	4.4
30°-40°	627.8	5.2
40°-50°	629.8	5.2
50°-60°	537.3	4.4
60°-70°	350.4	2.9
70°-80°	175.8	1.5
80°-90°	51.8	0.4
90°-100°	629.6	5.2
100°-110°	1695.9	14.0
110°-120°	1779.8	14.7
120°-130°	1444.2	12.0
130°-140°	1132.7	9.4
140°-150°	869.6	7.2
150°-160°	625.2	5.2
160°-170°	382.0	3.2
170°-180°	128.8	1.1
0°-30°	1017.8	8.4
0°-40°	1645.6	13.6
0°-60°	2812.7	23.3
0°-90°	3390.7	28.1
90°-120°	4105.2	34.0
90°-150°	7551.7	62.5
90°-180°	8688.0	71.9
0°-180°	12078.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1324	1324	1324	1324	1324	
5°	1328	1316	1320	1315	1315	126
15°	1277	1265	1270	1266	1263	360
25°	1176	1163	1168	1158	1156	541
35°	1016	1006	1009	998	996	635
45°	826	820	820	812	812	636
55°	612	610	604	601	600	544
65°	362	355	347	344	346	361
75°	165	165	162	161	160	179
85°	38	42	42	42	42	45
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: P563676

CATALOG NUMBER: SQ4-PP3-125U-050D-935-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1323.5	1323.5	1323.5	1323.5	1323.5
2.5°	1331.9	1321.0	1323.5	1321.6	1316.1
5°	1328.2	1315.7	1320.1	1315.4	1315.4
7.5°	1319.1	1305.5	1309.9	1305.2	1305.0
10°	1310.8	1297.2	1301.5	1296.8	1295.7
12.5°	1298.7	1285.1	1290.4	1284.8	1284.6
15°	1277.1	1264.7	1270.2	1265.5	1263.2
17.5°	1252.8	1239.2	1245.8	1239.3	1238.4
20°	1234.2	1220.6	1227.3	1218.0	1218.0
22.5°	1212.0	1198.3	1205.9	1193.9	1193.9
25°	1176.2	1162.6	1168.1	1157.6	1156.5
27.5°	1133.8	1120.4	1126.1	1114.3	1114.0
30°	1103.1	1090.7	1097.3	1084.6	1083.4
32.5°	1069.7	1058.2	1063.0	1050.2	1049.1
35°	1016.1	1005.9	1009.2	997.6	996.4
37.5°	959.8	949.3	953.0	943.1	942.6
40°	919.9	913.1	914.1	905.9	903.6
42.5°	882.7	875.0	876.0	867.9	867.4
45°	825.9	820.2	820.1	812.0	812.0
47.5°	765.6	761.3	760.0	753.3	753.1
50°	723.8	720.4	719.2	713.4	712.2
52.5°	680.2	678.6	674.6	669.8	669.5
55°	612.5	610.2	604.4	600.8	599.7
57.5°	538.9	534.4	527.8	522.7	523.6
60°	486.0	481.5	472.1	469.8	469.8
62.5°	435.0	429.6	420.1	416.9	418.8
65°	361.9	355.1	346.8	344.5	345.7
67.5°	295.6	289.4	280.5	280.5	279.6
70°	252.9	249.5	242.4	242.4	242.4
72.5°	214.8	213.2	208.1	208.1	207.2
75°	164.7	164.7	162.4	161.2	160.1
77.5°	123.4	123.9	122.7	121.5	119.5
80°	97.4	99.7	98.6	97.4	96.3
82.5°	73.3	75.6	75.4	73.3	73.1
85°	38.3	41.7	41.8	41.8	41.8
87.5°	10.9	15.9	19.0	19.3	20.2
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: P563676

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