

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: P564340

Luminaire Tested: **SQ4-PR1-125U-050D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564340
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-050D-840-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

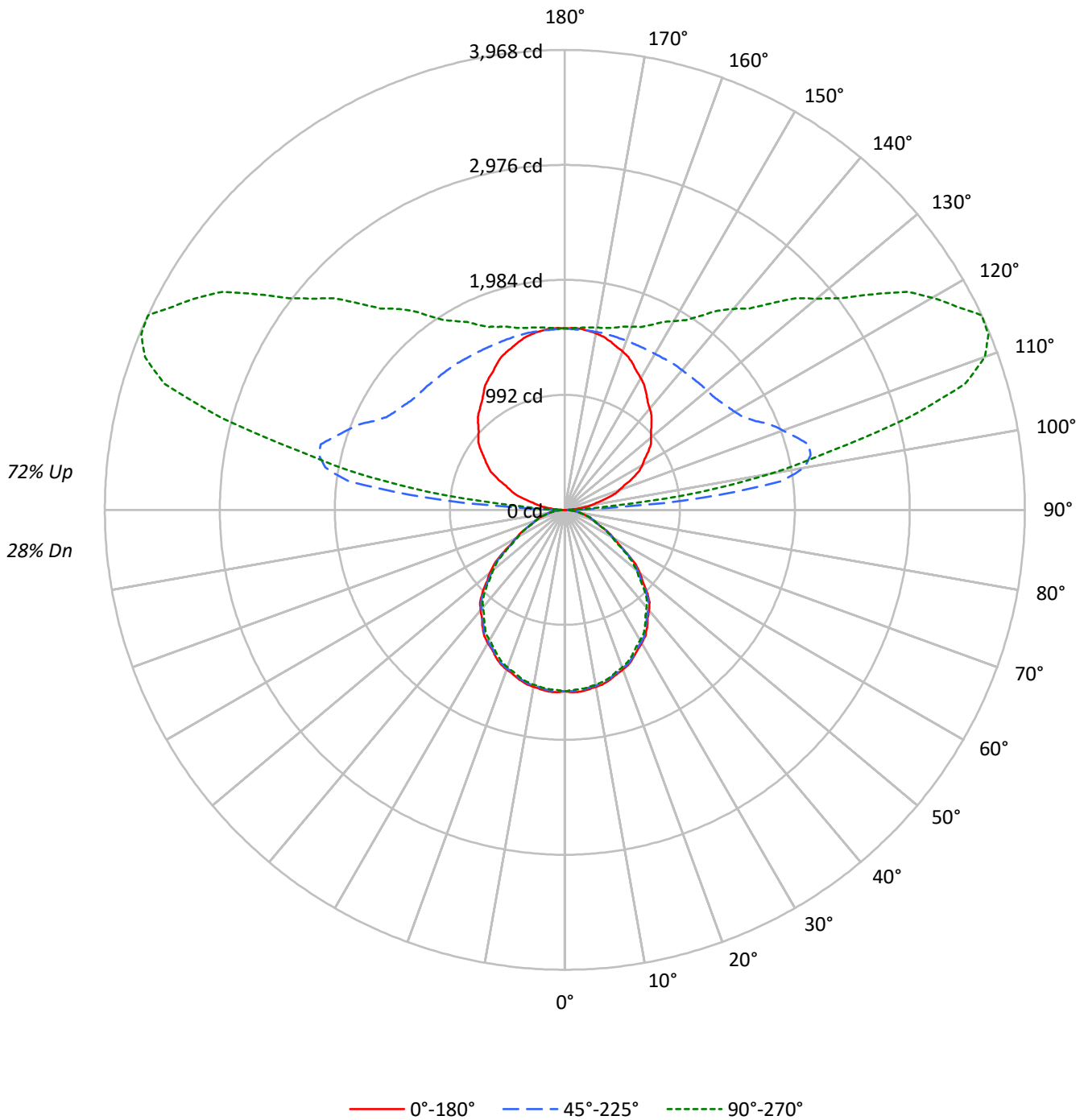
Lumens per Lamp: N/A
Luminaire Lumens: 14017.6 lumens
Efficiency: N/A
Efficacy: 144.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

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: P564340
CATALOG NUMBER: SQ4-PR1-125U-050D-840-1D-UNV-STD-W-8

Luminous Intensity Polar Plot





TEST NUMBER: P564340

CATALOG NUMBER: SQ4-PR1-125U-050D-840-1D-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	49	41	39	37	28	27	26	20
3	77	68	61	56	69	61	56	51	48	44	41	36	34	31	25	24	22	17
4	71	61	53	47	63	54	48	43	43	39	35	32	29	27	23	21	19	15
5	65	54	46	40	58	48	42	37	38	34	30	29	26	23	20	18	17	13
6	60	48	40	35	53	43	37	32	35	30	26	26	23	20	18	16	15	12
7	55	43	36	30	49	39	33	28	31	26	23	24	20	18	17	15	13	10
8	51	39	32	27	46	35	29	25	28	24	20	22	18	16	15	13	12	9
9	47	36	29	24	42	32	26	22	26	21	18	20	17	14	14	12	11	8
10	44	33	26	21	40	30	23	19	24	19	16	18	15	13	13	11	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7224	7224	7224
5°	7289	7233	7195
10°	7266	7215	7177
15°	7234	7189	7150
20°	7197	7151	7098
25°	7147	7099	7016
30°	7070	7019	6919
35°	6965	6904	6806
40°	6807	6733	6612
45°	6529	6415	6283
50°	6040	5895	5779
55°	5272	5153	5044
60°	4442	4406	4318
65°	3842	3858	3828
70°	3530	3547	3547
75°	3390	3390	3413
80°	3188	3225	3188
85°	2572	2858	2858



TEST NUMBER: P564340

CATALOG NUMBER: SQ4-PR1-125U-050D-840-1D-UNV-STD-W-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.1	1.1
10°-20°	423.7	3.0
20°-30°	639.0	4.6
30°-40°	761.4	5.4
40°-50°	750.7	5.4
50°-60°	573.7	4.1
60°-70°	355.0	2.5
70°-80°	201.7	1.4
80°-90°	65.0	0.5
90°-100°	731.8	5.2
100°-110°	1971.4	14.1
110°-120°	2068.9	14.8
120°-130°	1678.9	12.0
130°-140°	1316.7	9.4
140°-150°	1010.9	7.2
150°-160°	726.8	5.2
160°-170°	444.1	3.2
170°-180°	149.7	1.1
0°-30°	1210.8	8.6
0°-40°	1972.2	14.1
0°-60°	3296.6	23.5
0°-90°	3918.3	28.0
90°-120°	4772.2	34.0
90°-150°	8778.6	62.6
90°-180°	10099.0	72.0
0°-180°	14017.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1566	1566	1566	1566	1566	
5°	1574	1557	1562	1556	1554	149
15°	1515	1499	1505	1500	1497	427
25°	1404	1387	1395	1380	1378	646
35°	1237	1222	1226	1210	1208	772
45°	1001	988	983	966	963	767
55°	656	645	641	630	627	587
65°	352	349	353	351	351	357
75°	190	190	190	192	192	201
85°	49	51	54	54	54	57
90°	4	12	24	26	26	10
95°	112	398	1200	614	424	117
105°	365	567	2180	3262	3061	383
115°	644	788	1816	3508	3968	633
125°	879	1009	1630	2755	3242	785
135°	1058	1181	1584	2223	2517	817
145°	1224	1319	1564	1900	2041	767
155°	1389	1440	1550	1705	1760	639
165°	1507	1524	1556	1618	1626	425
175°	1566	1564	1558	1580	1576	149
180°	1564	1564	1564	1564	1564	

TEST NUMBER: P564340

CATALOG NUMBER: SQ4-PR1-125U-050D-840-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1565.9	1565.9	1565.9	1565.9	1565.9
2.5°	1575.6	1561.9	1565.9	1562.5	1555.1
5°	1574.0	1556.9	1561.9	1556.4	1553.8
7.5°	1561.9	1545.0	1550.0	1544.6	1543.0
10°	1551.1	1535.3	1540.3	1534.8	1532.2
12.5°	1539.2	1522.3	1528.4	1521.9	1519.2
15°	1514.7	1498.8	1505.2	1499.8	1497.1
17.5°	1487.7	1470.8	1477.2	1470.9	1467.5
20°	1466.1	1450.3	1456.7	1447.2	1445.9
22.5°	1442.4	1426.5	1432.9	1420.2	1420.0
25°	1404.1	1386.9	1394.6	1379.8	1378.4
27.5°	1358.5	1342.7	1349.0	1333.9	1332.3
30°	1327.2	1311.4	1317.7	1301.5	1298.9
32.5°	1291.6	1276.8	1282.1	1265.9	1264.3
35°	1236.8	1222.3	1226.0	1209.8	1208.5
37.5°	1174.5	1161.3	1163.4	1145.6	1144.3
40°	1130.3	1117.1	1118.1	1099.2	1097.9
42.5°	1081.7	1068.5	1067.4	1048.5	1047.2
45°	1000.8	987.6	983.3	965.7	963.0
47.5°	908.5	895.3	887.2	872.9	871.0
50°	841.6	828.4	821.4	809.2	805.2
52.5°	769.3	756.1	750.2	739.0	735.1
55°	655.5	644.9	640.7	629.8	627.2
57.5°	547.3	540.2	539.0	528.4	527.4
60°	481.5	477.6	477.5	468.0	468.0
62.5°	425.4	422.5	424.6	418.4	417.3
65°	352.0	349.4	353.4	350.7	350.7
67.5°	294.0	294.0	296.5	295.4	295.4
70°	261.7	261.7	263.0	263.0	263.0
72.5°	232.5	231.5	235.0	234.9	233.9
75°	190.2	190.2	190.2	191.5	191.5
77.5°	148.1	148.4	149.4	149.1	148.1
80°	120.0	121.4	121.4	120.0	120.0
82.5°	92.0	93.3	93.3	93.0	92.0
85°	48.6	51.2	54.0	54.0	54.0
87.5°	14.8	20.6	26.4	26.7	25.7
90°	4.0	11.8	23.9	25.9	25.9
92.5°	48.6	171.8	339.6	163.5	113.6
95°	111.6	398.0	1199.7	613.5	424.5
97.5°	178.2	455.6	1881.7	1572.0	1185.4
100°	229.2	478.6	2098.5	2195.6	1821.5
102.5°	278.6	510.9	2170.3	2662.7	2355.6
105°	364.7	567.4	2180.2	3261.8	3061.1
107.5°	446.0	626.8	2087.4	3569.7	3621.5
110°	500.2	671.7	2002.9	3665.2	3854.3

TEST NUMBER: P564340

CATALOG NUMBER: SQ4-PR1-125U-050D-840-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	557.6	716.6	1921.5	3644.1	3954.7
115°	643.7	787.9	1815.5	3508.0	3967.9
117.5°	722.2	857.5	1733.4	3290.7	3802.8
120°	773.2	903.8	1692.0	3134.8	3660.9
122.5°	817.9	946.9	1661.7	2975.4	3499.9
125°	878.9	1009.4	1630.2	2755.3	3242.4
127.5°	937.5	1066.1	1610.3	2561.2	2996.1
130°	972.5	1101.1	1602.3	2450.0	2831.9
132.5°	1007.6	1134.7	1594.3	2352.0	2702.8
135°	1058.2	1181.0	1584.4	2222.8	2517.0
137.5°	1106.5	1224.2	1579.2	2113.2	2354.8
140°	1139.9	1253.0	1574.4	2045.7	2263.9
142.5°	1175.0	1280.2	1571.2	1982.7	2166.7
145°	1223.6	1319.1	1564.4	1900.4	2040.7
147.5°	1276.2	1359.3	1557.6	1831.2	1941.5
150°	1311.3	1383.4	1554.5	1787.7	1879.3
152.5°	1343.2	1406.0	1552.9	1752.3	1826.7
155°	1389.0	1439.7	1550.5	1705.2	1759.7
157.5°	1429.3	1468.7	1550.9	1672.1	1708.7
160°	1454.8	1487.9	1552.5	1652.7	1680.0
162.5°	1477.1	1504.0	1554.1	1636.6	1656.1
165°	1506.6	1524.2	1556.5	1618.4	1626.2
167.5°	1530.5	1540.7	1558.4	1604.4	1607.5
170°	1546.5	1550.4	1558.4	1596.3	1596.3
172.5°	1556.1	1556.8	1560.0	1588.3	1588.3
175°	1566.4	1564.5	1558.4	1580.3	1576.4
177.5°	1570.8	1567.7	1559.6	1572.3	1569.2
180°	1564.4	1564.4	1564.4	1564.4	1564.4

(END OF REPORT)