

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: P520274

Luminaire Tested: **SQ4-F-125U-050D-835-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520274
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G3-1910-536-17)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-125U-050D-835-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

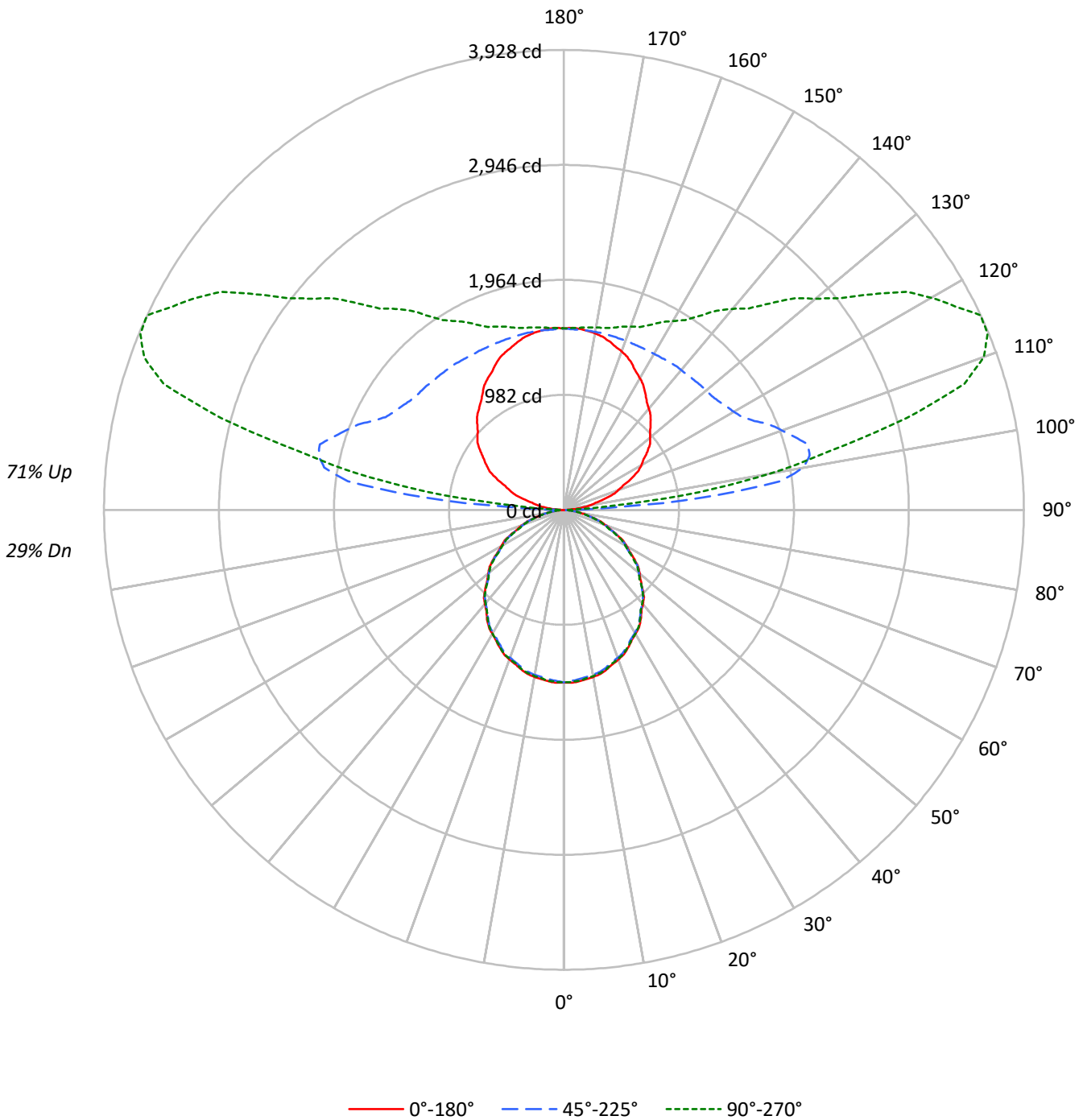
Lumens per Lamp: N/A
Luminaire Lumens: 14023.0 lumens
Efficiency: N/A
Efficacy: 157.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 89.1
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				
RC	80					70					50					30				
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	37	37	37	29		
1	93	89	85	82	83	80	77	74	63	60	58	47	45	44	32	31	31	24		
2	85	77	72	67	76	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	47	42	43	38	34	32	29	26	22	20	19	15		
5	64	53	45	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	25	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	28	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°	6796	6796	6796
5°	6813	6730	6785
10°	6790	6707	6753
15°	6743	6659	6715
20°	6680	6603	6651
25°	6605	6525	6585
30°	6513	6460	6502
35°	6441	6364	6397
40°	6318	6259	6271
45°	6189	6137	6137
50°	6058	6001	5972
55°	5916	5837	5805
60°	5695	5604	5568
65°	5425	5317	5253
70°	5054	4947	4841
75°	4534	4394	4288
80°	3666	3616	3509
85°	2191	2504	2609



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.0	1.0
10°-20°	395.8	2.8
20°-30°	594.5	4.2
30°-40°	709.7	5.1
40°-50°	727.2	5.2
50°-60°	648.6	4.6
60°-70°	483.0	3.4
70°-80°	262.2	1.9
80°-90°	64.4	0.5
90°-100°	724.6	5.2
100°-110°	1951.8	13.9
110°-120°	2048.3	14.6
120°-130°	1662.2	11.9
130°-140°	1303.6	9.3
140°-150°	1000.8	7.1
150°-160°	719.6	5.1
160°-170°	439.6	3.1
170°-180°	148.3	1.1
0°-30°	1129.3	8.1
0°-40°	1839.0	13.1
0°-60°	3214.8	22.9
0°-90°	4024.3	28.7
90°-120°	4724.6	33.7
90°-150°	8691.2	62.0
90°-180°	9999.0	71.3
0°-180°	14023.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1473	1473	1473	1473	1473	
5°	1471	1469	1453	1467	1465	140
15°	1412	1408	1394	1406	1406	398
25°	1298	1294	1282	1290	1294	598
35°	1144	1140	1130	1130	1136	714
45°	949	951	941	939	941	732
55°	736	736	726	720	722	655
65°	497	495	487	481	481	492
75°	254	252	246	243	241	269
85°	41	45	47	49	49	58
90°	4	12	24	26	26	9
95°	110	394	1188	607	420	115
105°	361	562	2158	3229	3031	380
115°	637	780	1797	3473	3928	627
125°	870	999	1614	2728	3210	777
135°	1048	1169	1569	2201	2492	809
145°	1212	1306	1549	1882	2020	760
155°	1375	1425	1535	1688	1742	633
165°	1492	1509	1541	1602	1610	421
175°	1551	1549	1543	1564	1561	147
180°	1549	1549	1549	1549	1549	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1473.2	1473.2	1473.2	1473.2	1473.2
2.5°	1477.9	1474.8	1462.1	1473.2	1471.6
5°	1471.2	1469.2	1453.4	1467.3	1465.3
7.5°	1460.5	1456.7	1441.2	1454.6	1452.7
10°	1449.5	1445.7	1431.8	1443.6	1441.6
12.5°	1435.3	1433.0	1417.6	1429.4	1429.0
15°	1412.0	1408.2	1394.3	1406.1	1406.1
17.5°	1381.3	1379.0	1365.5	1376.9	1375.4
20°	1360.8	1356.9	1345.0	1354.8	1354.8
22.5°	1335.5	1333.2	1321.3	1329.6	1331.2
25°	1297.7	1293.8	1281.9	1289.9	1293.7
27.5°	1255.8	1252.8	1242.8	1248.1	1250.7
30°	1222.7	1222.7	1212.8	1214.9	1220.7
32.5°	1192.7	1192.7	1181.3	1183.4	1186.0
35°	1143.8	1140.0	1130.0	1130.1	1135.9
37.5°	1087.0	1085.1	1078.7	1077.6	1079.1
40°	1049.2	1047.2	1039.3	1041.3	1041.3
42.5°	1011.3	1009.3	1001.4	998.8	1001.8
45°	948.6	950.6	940.7	938.7	940.7
47.5°	886.7	886.7	878.8	873.4	876.4
50°	844.1	844.1	836.2	832.2	832.2
52.5°	799.9	801.5	792.0	786.5	788.1
55°	735.6	735.6	725.7	719.8	721.8
57.5°	664.6	664.6	654.7	648.9	652.4
60°	617.3	617.3	607.4	601.5	603.5
62.5°	569.9	569.9	560.1	554.2	554.6
65°	497.0	495.0	487.1	481.2	481.2
67.5°	426.8	421.7	415.7	407.8	407.8
70°	374.7	372.7	366.8	358.9	358.9
72.5°	327.4	323.9	317.9	311.6	311.6
75°	254.4	252.4	246.5	242.6	240.6
77.5°	182.2	180.6	180.3	174.7	176.3
80°	138.0	138.0	136.1	132.1	132.1
82.5°	98.6	100.2	96.6	95.8	94.3
85°	41.4	45.3	47.3	49.3	49.3
87.5°	8.7	14.9	15.8	17.7	17.7
90°	3.9	11.6	23.7	25.7	25.7
92.5°	48.2	170.1	336.2	161.8	112.5
95°	110.5	394.1	1187.8	607.4	420.2
97.5°	176.4	451.1	1862.9	1556.3	1173.6
100°	226.9	473.8	2077.6	2173.7	1803.3
102.5°	275.8	505.8	2148.7	2636.2	2332.1
105°	361.0	561.7	2158.5	3229.3	3030.6
107.5°	441.6	620.6	2066.6	3534.1	3585.4
110°	495.2	665.0	1982.9	3628.7	3815.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	552.1	709.4	1902.4	3607.8	3915.3
115°	637.3	780.1	1797.4	3473.0	3928.3
117.5°	715.1	848.9	1716.2	3257.9	3764.9
120°	765.5	894.8	1675.1	3103.6	3624.5
122.5°	809.7	937.5	1645.2	2945.7	3465.1
125°	870.1	999.3	1614.0	2727.9	3210.2
127.5°	928.1	1055.5	1594.2	2535.7	2966.3
130°	962.8	1090.1	1586.3	2425.5	2803.7
132.5°	997.6	1123.4	1578.4	2328.6	2675.9
135°	1047.7	1169.3	1568.6	2200.7	2492.0
137.5°	1095.5	1212.0	1563.5	2092.1	2331.3
140°	1128.6	1240.5	1558.7	2025.3	2241.3
142.5°	1163.3	1267.4	1555.6	1963.0	2145.1
145°	1211.5	1306.0	1548.8	1881.5	2020.4
147.5°	1263.5	1345.7	1542.1	1813.0	1922.1
150°	1298.2	1369.7	1539.0	1769.9	1860.6
152.5°	1329.8	1392.0	1537.4	1734.7	1808.5
155°	1375.2	1425.4	1535.0	1688.2	1742.1
157.5°	1415.0	1454.0	1535.4	1655.4	1691.7
160°	1440.3	1473.1	1537.0	1636.3	1663.3
162.5°	1462.4	1489.1	1538.6	1620.3	1639.6
165°	1491.6	1509.0	1541.0	1602.3	1610.0
167.5°	1515.3	1525.4	1542.9	1588.4	1591.5
170°	1531.1	1534.9	1542.9	1580.4	1580.4
172.5°	1540.6	1541.3	1544.5	1572.5	1572.5
175°	1550.8	1548.8	1542.9	1564.5	1560.7
177.5°	1555.2	1552.1	1544.1	1556.6	1553.6
180°	1548.8	1548.8	1548.8	1548.8	1548.8

(END OF REPORT)