

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: P520360

Luminaire Tested: **SQ4-F-125U-125D-940-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P520360  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G3-1910-536-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/29/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-F-125U-125D-940-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

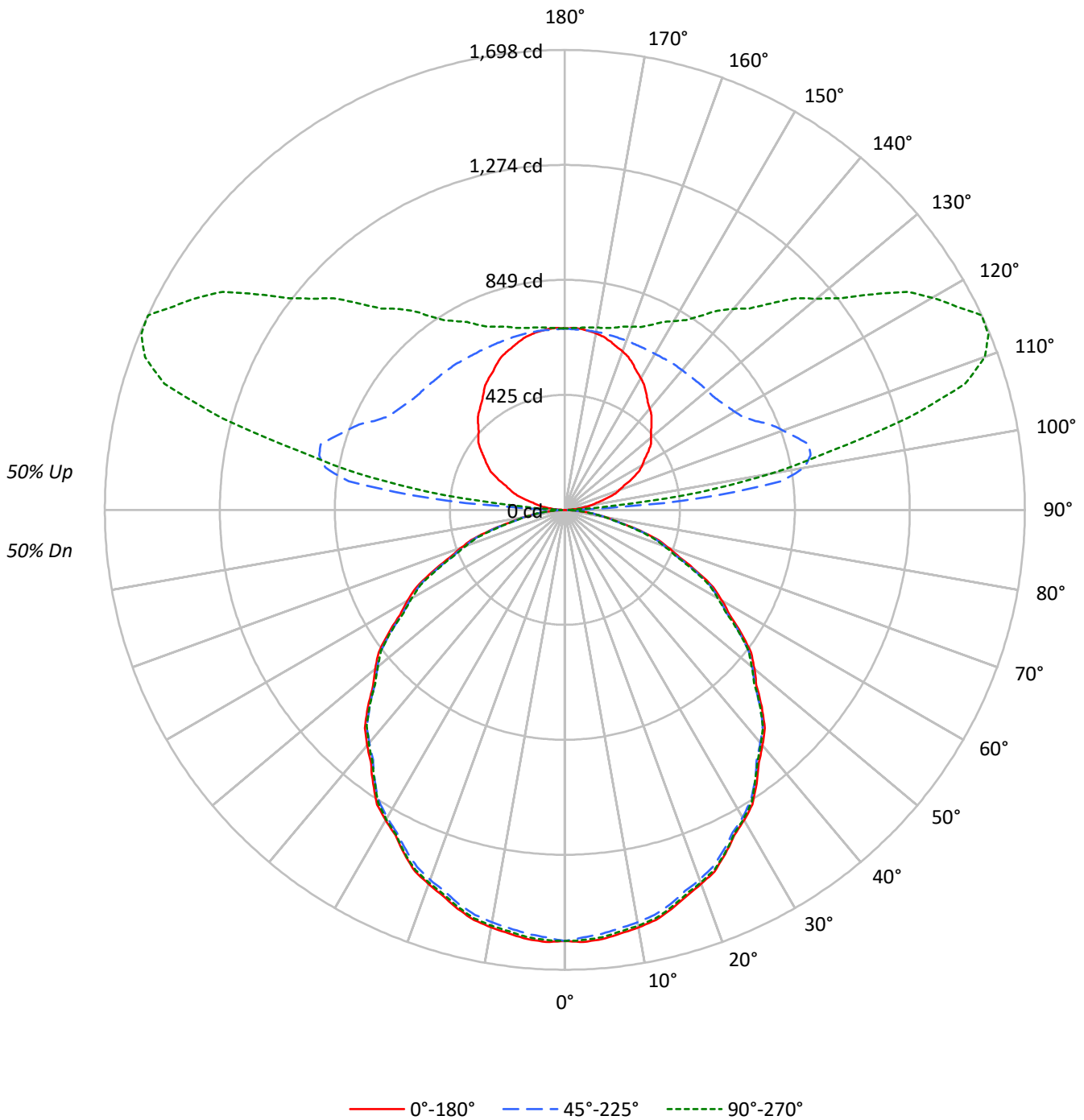
Lumens per Lamp: N/A  
Luminaire Lumens: 8666.9 lumens  
Efficiency: N/A  
Efficacy: 115.1 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 75.3  
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	93	90	86	90	86	83	80	73	71	68	61	59	58	50	49	47	42
2	89	82	75	70	82	75	70	66	64	60	57	53	51	48	44	42	40	35
3	81	72	64	58	75	66	60	55	56	51	47	47	44	41	39	36	34	30
4	74	63	55	49	68	59	52	46	50	45	40	42	38	35	34	31	29	25
5	68	56	48	42	62	52	45	40	45	39	35	38	33	30	31	28	25	22
6	63	50	42	36	58	47	40	34	40	34	30	34	30	26	28	25	22	19
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	26	22	20	17
8	54	41	33	28	49	38	31	27	33	28	24	28	24	21	23	20	18	15
9	50	38	30	25	46	35	28	24	30	25	21	26	22	18	22	18	16	14
10	47	35	27	22	43	32	26	21	28	23	19	24	20	17	20	17	14	12

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	14688	14688	14688
5°	14736	14550	14671
10°	14668	14487	14603
15°	14570	14394	14512
20°	14435	14272	14383
25°	14271	14120	14236
30°	14095	13973	14048
35°	13895	13776	13786
40°	13665	13518	13560
45°	13409	13262	13284
50°	13118	12965	12928
55°	12783	12598	12571
60°	12367	12092	12029
65°	11725	11477	11324
70°	10920	10636	10494
75°	9714	9496	9211
80°	7917	7678	7635
85°	4732	5378	5378



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.2	1.7
10°-20°	427.8	4.9
20°-30°	642.7	7.4
30°-40°	766.9	8.8
40°-50°	786.1	9.1
50°-60°	700.7	8.1
60°-70°	521.6	6.0
70°-80°	282.6	3.3
80°-90°	66.5	0.8
90°-100°	313.2	3.6
100°-110°	843.6	9.7
110°-120°	885.4	10.2
120°-130°	718.5	8.3
130°-140°	563.5	6.5
140°-150°	432.6	5.0
150°-160°	311.0	3.6
160°-170°	190.0	2.2
170°-180°	64.1	0.7
0°-30°	1220.7	14.1
0°-40°	1987.6	22.9
0°-60°	3474.4	40.1
0°-90°	4345.0	50.1
90°-120°	2042.2	23.6
90°-150°	3756.7	43.3
90°-180°	4322.0	49.9
0°-180°	8666.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1592	1592	1592	1592	1592	
5°	1591	1589	1571	1585	1584	151
15°	1525	1522	1507	1520	1519	430
25°	1402	1399	1387	1395	1398	646
35°	1234	1233	1223	1223	1224	771
45°	1028	1025	1016	1015	1018	792
55°	795	792	783	777	782	710
65°	537	534	526	522	519	532
75°	272	272	266	261	258	289
85°	45	51	51	52	51	62
90°	2	5	10	11	11	4
95°	48	170	513	263	182	50
105°	156	243	933	1396	1310	164
115°	276	337	777	1501	1698	271
125°	376	432	698	1179	1388	336
135°	453	505	678	951	1077	350
145°	524	564	670	813	873	328
155°	594	616	664	730	753	274
165°	645	652	666	693	696	182
175°	670	670	667	676	675	64
180°	670	670	670	670	670	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1592.0	1592.0	1592.0	1592.0	1592.0
2.5°	1596.9	1594.2	1580.1	1591.9	1589.9
5°	1591.1	1588.6	1571.0	1584.9	1584.1
7.5°	1577.6	1574.4	1558.4	1571.5	1569.9
10°	1565.7	1563.1	1546.4	1559.6	1558.7
12.5°	1551.0	1548.5	1531.7	1544.8	1544.7
15°	1525.4	1522.0	1507.0	1520.2	1519.3
17.5°	1494.7	1490.8	1476.0	1486.3	1488.0
20°	1470.2	1467.7	1453.6	1463.2	1464.9
22.5°	1445.0	1441.7	1426.9	1438.0	1439.7
25°	1401.9	1399.3	1387.0	1394.9	1398.4
27.5°	1354.6	1354.6	1343.1	1348.8	1350.9
30°	1323.0	1323.0	1311.6	1315.2	1318.6
32.5°	1289.4	1286.7	1275.9	1278.8	1282.2
35°	1233.7	1232.7	1223.1	1223.1	1224.0
37.5°	1176.0	1173.6	1163.0	1163.8	1168.0
40°	1134.6	1132.9	1122.4	1122.5	1125.9
42.5°	1092.6	1090.8	1081.7	1080.3	1081.7
45°	1027.7	1025.2	1016.4	1014.6	1018.1
47.5°	958.7	959.4	948.9	946.5	948.3
50°	913.9	913.9	903.3	898.1	900.7
52.5°	866.9	865.5	855.0	849.1	855.1
55°	794.7	792.1	783.2	777.3	781.5
57.5°	720.7	716.8	707.9	701.4	703.8
60°	670.2	664.3	655.3	650.2	651.9
62.5°	617.7	614.4	604.9	597.0	600.7
65°	537.1	533.6	525.7	522.2	518.7
67.5°	458.1	455.9	446.9	443.1	440.9
70°	404.8	400.5	394.3	389.9	389.0
72.5°	352.9	347.9	341.7	338.0	335.8
75°	272.5	272.5	266.4	261.1	258.4
77.5°	195.9	196.6	191.6	189.7	188.5
80°	149.0	149.0	144.5	142.8	143.7
82.5°	104.1	106.1	104.6	102.2	100.9
85°	44.7	50.7	50.8	51.7	50.8
87.5°	8.1	13.6	15.4	14.2	12.8
90°	1.7	5.0	10.3	11.1	11.1
92.5°	20.8	73.5	145.3	70.0	48.6
95°	47.8	170.3	513.4	262.6	181.7
97.5°	76.3	195.0	805.3	672.7	507.3
100°	98.1	204.8	898.0	939.6	779.5
102.5°	119.2	218.7	928.7	1139.5	1008.0
105°	156.1	242.8	933.0	1395.8	1310.0
107.5°	190.8	268.3	893.3	1527.5	1549.7
110°	214.0	287.4	857.1	1568.5	1649.4

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	238.6	306.7	822.3	1559.4	1692.3
115°	275.5	337.2	776.9	1501.2	1697.9
117.5°	309.0	367.0	741.8	1408.2	1627.4
120°	330.9	386.8	724.1	1341.5	1566.6
122.5°	350.0	405.2	711.1	1273.3	1497.7
125°	376.1	432.0	697.6	1179.1	1387.5
127.5°	401.2	456.2	689.1	1096.0	1282.1
130°	416.2	471.3	685.7	1048.4	1211.9
132.5°	431.2	485.6	682.2	1006.5	1156.6
135°	452.8	505.4	678.0	951.2	1077.1
137.5°	473.5	523.8	675.8	904.3	1007.7
140°	487.8	536.2	673.7	875.4	968.9
142.5°	502.8	547.8	672.3	848.5	927.2
145°	523.7	564.5	669.5	813.3	873.3
147.5°	546.1	581.7	666.5	783.7	830.8
150°	561.1	592.0	665.2	765.0	804.2
152.5°	574.8	601.7	664.6	749.8	781.7
155°	594.4	616.1	663.5	729.7	753.1
157.5°	611.7	628.5	663.7	715.6	731.3
160°	622.5	636.7	664.4	707.3	718.9
162.5°	632.1	643.6	665.0	700.4	708.7
165°	644.7	652.2	666.0	692.6	695.9
167.5°	655.0	659.3	666.9	686.6	687.9
170°	661.8	663.5	666.9	683.1	683.1
172.5°	665.9	666.2	667.6	679.7	679.7
175°	670.3	669.5	666.9	676.3	674.6
177.5°	672.2	670.9	667.4	672.8	671.6
180°	669.5	669.5	669.5	669.5	669.5

(END OF REPORT)