

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: P565094

Luminaire Tested: **SQ4-PW1-125U-125D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P565094  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PW1-125U-125D-940-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

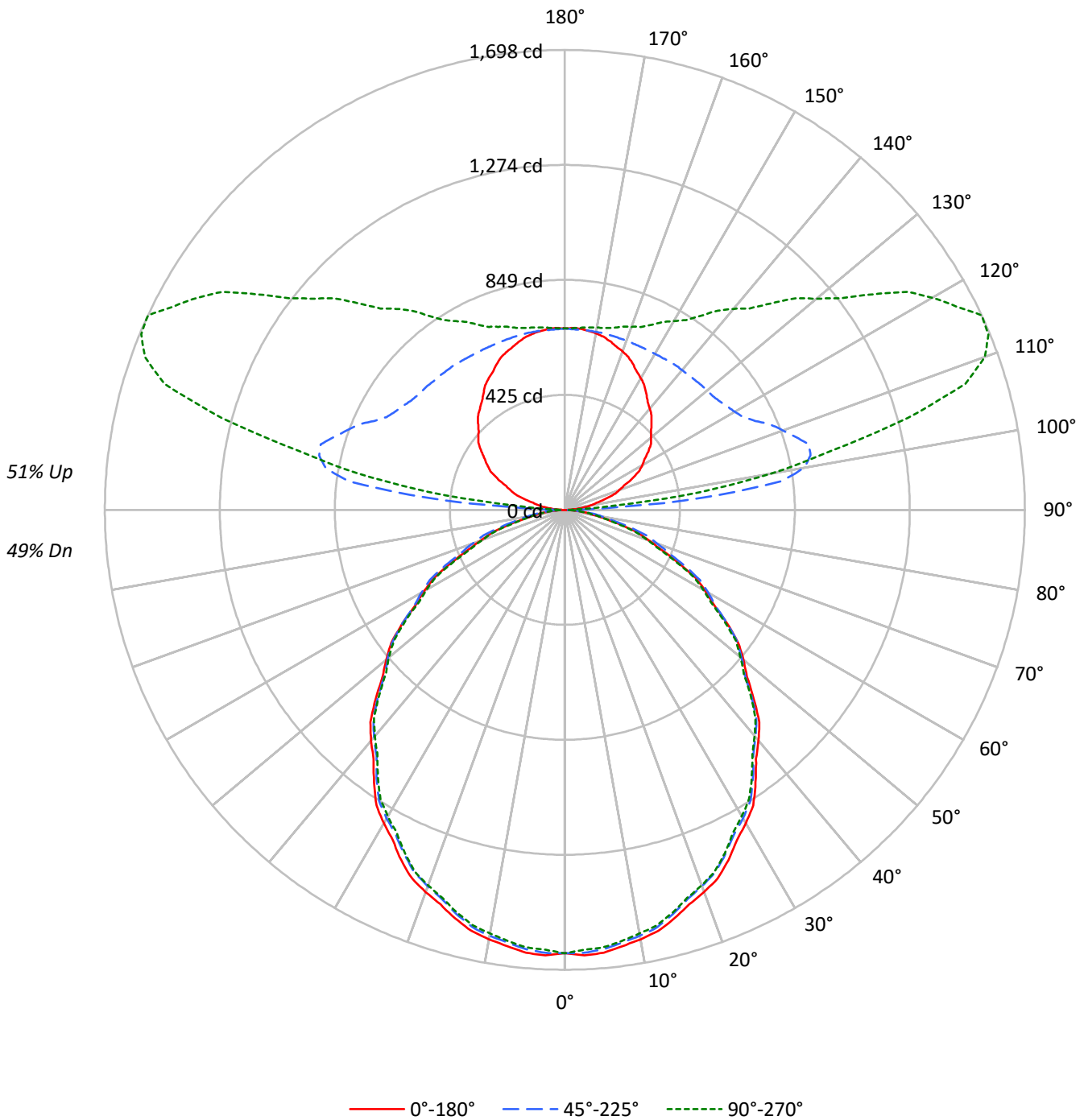
Lumens per Lamp: N/A  
Luminaire Lumens: 8488.8 lumens  
Efficiency: N/A  
Efficacy: 112.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

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	68	68	68	55	55	55	49
1	98	93	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47	42
2	89	82	76	70	82	75	70	66	64	60	57	53	50	48	43	41	40	35
3	81	72	65	59	75	66	60	55	56	52	48	47	44	41	38	36	34	30
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29	25
5	68	57	49	43	63	53	45	40	45	39	35	38	33	30	31	28	25	22
6	63	51	43	37	58	47	40	35	40	35	31	34	30	26	28	25	22	19
7	58	46	38	32	53	43	36	31	37	31	27	31	27	23	26	22	20	17
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	24	20	18	15
9	50	38	31	25	46	35	29	24	31	25	21	26	22	19	22	18	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

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

	0°	45°	90°
0°	15105	15105	15105
5°	15203	15082	15016
10°	15081	14960	14878
15°	14922	14756	14701
20°	14743	14516	14488
25°	14537	14273	14229
30°	14230	14015	13923
35°	13825	13631	13550
40°	13394	13186	13134
45°	12873	12705	12647
50°	12340	12236	12153
55°	11763	11763	11578
60°	11046	11260	10859
65°	10108	10612	9857
70°	8910	9768	8678
75°	7611	8741	7404
80°	5903	7359	5977
85°	3822	5653	5039



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.2	1.8
10°-20°	435.3	5.1
20°-30°	645.6	7.6
30°-40°	755.4	8.9
40°-50°	752.1	8.9
50°-60°	649.5	7.7
60°-70°	467.5	5.5
70°-80°	245.2	2.9
80°-90°	62.4	0.7
90°-100°	313.2	3.7
100°-110°	843.6	9.9
110°-120°	885.4	10.4
120°-130°	718.5	8.5
130°-140°	563.5	6.6
140°-150°	432.6	5.1
150°-160°	311.0	3.7
160°-170°	190.0	2.2
170°-180°	64.1	0.8
0°-30°	1235.0	14.5
0°-40°	1990.5	23.4
0°-60°	3392.0	40.0
0°-90°	4167.0	49.1
90°-120°	2042.2	24.1
90°-150°	3756.7	44.3
90°-180°	4322.0	50.9
0°-180°	8488.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1637	1637	1637	1637	1637	
5°	1642	1623	1628	1624	1621	155
15°	1562	1542	1545	1542	1539	440
25°	1428	1404	1402	1394	1398	657
35°	1228	1211	1210	1199	1203	767
45°	987	978	974	971	969	761
55°	731	730	731	721	720	653
65°	463	477	486	467	452	459
75°	214	233	245	229	208	229
85°	36	47	53	50	48	48
90°	2	5	10	11	11	5
95°	48	170	513	262	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	



TEST NUMBER: P565094

CATALOG NUMBER: SQ4-PW1-125U-125D-940-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1637.2	1637.2	1637.2	1637.2	1637.2
2.5°	1646.4	1632.9	1637.2	1633.5	1625.6
5°	1641.5	1623.2	1628.5	1624.1	1621.3
7.5°	1624.8	1607.9	1611.8	1607.1	1605.5
10°	1609.8	1592.9	1596.8	1591.0	1588.1
12.5°	1592.5	1574.4	1578.3	1572.5	1570.8
15°	1562.2	1542.4	1544.9	1541.9	1539.1
17.5°	1527.0	1507.0	1507.4	1502.7	1502.2
20°	1501.6	1480.4	1478.5	1472.8	1475.6
22.5°	1473.9	1451.6	1449.7	1441.7	1445.6
25°	1428.0	1404.1	1402.1	1393.5	1397.7
27.5°	1374.9	1351.3	1351.3	1339.3	1343.8
30°	1335.7	1313.1	1315.5	1301.2	1306.9
32.5°	1294.2	1273.9	1275.1	1260.8	1266.5
35°	1227.5	1210.6	1210.2	1198.8	1203.0
37.5°	1159.4	1144.5	1142.1	1135.5	1136.7
40°	1112.1	1099.4	1094.8	1090.5	1090.5
42.5°	1062.5	1050.9	1046.4	1043.2	1042.0
45°	986.6	978.2	973.7	970.7	969.3
47.5°	911.6	903.7	899.8	897.8	896.3
50°	859.7	854.1	852.5	848.1	846.7
52.5°	807.8	804.4	802.9	797.4	795.9
55°	731.3	729.9	731.3	721.2	719.8
57.5°	651.7	654.0	658.6	645.0	641.6
60°	598.6	604.3	610.2	594.2	588.5
62.5°	544.4	553.4	561.7	543.3	535.4
65°	463.0	477.1	486.1	467.0	451.5
67.5°	384.6	402.0	412.8	392.2	374.7
70°	330.3	350.1	362.1	341.4	321.7
72.5°	283.0	305.0	314.7	295.3	275.5
75°	213.5	233.2	245.2	228.9	207.7
77.5°	151.5	170.1	180.0	165.8	148.3
80°	111.1	130.8	138.5	126.6	112.5
82.5°	78.8	95.1	100.4	93.3	83.7
85°	36.1	47.3	53.4	50.4	47.6
87.5°	9.6	18.1	24.0	24.2	25.3
90°	1.7	5.0	10.2	11.1	11.1
92.5°	20.8	73.5	145.3	70.0	48.6
95°	47.8	170.3	513.4	262.5	181.7
97.5°	76.2	195.0	805.2	672.7	507.3
100°	98.1	204.8	898.0	939.6	779.5
102.5°	119.2	218.6	928.7	1139.5	1008.0
105°	156.1	242.8	933.0	1395.8	1309.9
107.5°	190.9	268.2	893.3	1527.6	1549.8
110°	214.1	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	1692.4
115°	275.5	337.2	776.9	1501.2	1698.0
117.5°	309.1	366.9	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	1387.6
127.5°	401.2	456.2	689.1	1096.0	1282.1
130°	416.2	471.2	685.7	1048.4	1211.9
132.5°	431.2	485.6	682.3	1006.5	1156.6
135°	452.9	505.4	678.0	951.2	1077.1
137.5°	473.5	523.9	675.8	904.3	1007.7
140°	487.8	536.2	673.7	875.4	968.8
142.5°	502.8	547.9	672.4	848.5	927.2
145°	523.6	564.5	669.5	813.3	873.3
147.5°	546.2	581.7	666.6	783.6	830.8
150°	561.2	592.0	665.2	765.0	804.2
152.5°	574.8	601.7	664.5	749.8	781.7
155°	594.4	616.1	663.5	729.7	753.0
157.5°	611.6	628.5	663.7	715.5	731.2
160°	622.6	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	666.1	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	672.9	671.5
180°	669.5	669.5	669.5	669.5	669.5

(END OF REPORT)