

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: P564414

Luminaire Tested: **SQ4-PR1-125U-125D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564414  
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-125D-930-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

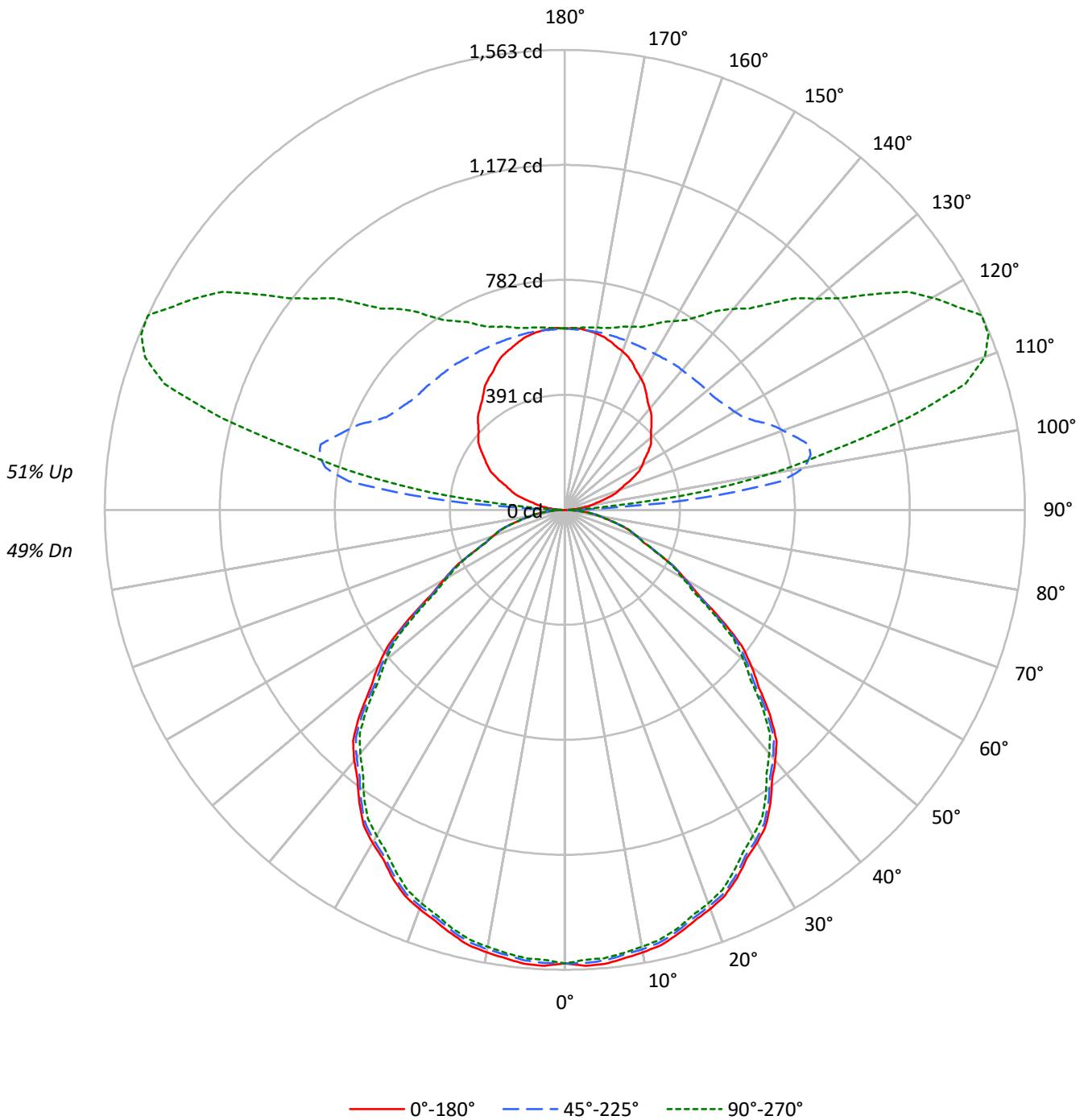
Lumens per Lamp: N/A  
Luminaire Lumens: 7833.4 lumens  
Efficiency: N/A  
Efficacy: 104.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

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				
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	55	55	55	49		
1	98	94	90	86	90	86	83	80	73	71	69	61	59	58	49	48	47	42		
2	89	82	76	71	82	76	71	66	64	61	57	54	51	49	44	42	40	36		
3	82	72	65	60	75	67	61	56	57	52	48	48	44	41	39	37	35	31		
4	75	64	56	51	69	60	53	47	51	46	41	43	39	36	35	32	30	26		
5	69	57	49	43	63	53	46	41	46	40	36	38	34	31	32	29	26	23		
6	63	51	43	38	58	48	41	36	41	36	31	35	30	27	29	26	23	20		
7	59	46	39	33	54	43	36	31	37	32	28	32	27	24	26	23	21	18		
8	54	42	35	29	50	39	33	28	34	29	25	29	25	22	24	21	19	16		
9	51	39	31	26	47	36	29	25	31	26	22	27	22	19	22	19	17	15		
10	47	35	28	23	44	33	27	22	29	23	20	25	20	18	21	18	15	13		

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

	0°	45°	90°
0°	14222	14222	14222
5°	14351	14240	14166
10°	14305	14206	14131
15°	14242	14154	14077
20°	14171	14079	13975
25°	14071	13976	13814
30°	13919	13820	13622
35°	13714	13593	13400
40°	13401	13257	13017
45°	12855	12629	12369
50°	11892	11606	11378
55°	10380	10145	9931
60°	8746	8673	8501
65°	7564	7595	7536
70°	6949	6984	6984
75°	6673	6673	6720
80°	6280	6349	6280
85°	5060	5621	5621



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.8	1.9
10°-20°	417.1	5.3
20°-30°	629.1	8.0
30°-40°	749.6	9.6
40°-50°	739.0	9.4
50°-60°	564.8	7.2
60°-70°	349.5	4.5
70°-80°	198.5	2.5
80°-90°	61.8	0.8
90°-100°	288.3	3.7
100°-110°	776.6	9.9
110°-120°	815.0	10.4
120°-130°	661.3	8.4
130°-140°	518.7	6.6
140°-150°	398.2	5.1
150°-160°	286.3	3.7
160°-170°	174.9	2.2
170°-180°	59.0	0.8
0°-30°	1191.9	15.2
0°-40°	1941.5	24.8
0°-60°	3245.3	41.4
0°-90°	3855.1	49.2
90°-120°	1879.8	24.0
90°-150°	3458.0	44.1
90°-180°	3978.0	50.8
0°-180°	7833.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1542	1542	1542	1542	1542	
5°	1550	1533	1538	1532	1530	147
15°	1491	1476	1482	1476	1474	421
25°	1382	1365	1373	1358	1357	636
35°	1218	1203	1207	1191	1190	760
45°	985	972	968	951	948	755
55°	645	635	631	620	617	578
65°	346	344	348	345	345	351
75°	187	187	187	188	188	198
85°	48	50	53	53	53	56
90°	2	5	9	10	10	5
95°	44	157	473	242	167	46
105°	144	224	859	1285	1206	151
115°	254	310	715	1382	1563	250
125°	346	398	642	1085	1277	309
135°	417	465	624	876	992	322
145°	482	520	616	749	804	302
155°	547	567	611	672	693	252
165°	594	600	613	638	641	167
175°	617	616	614	622	621	59
180°	616	616	616	616	616	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1541.5	1541.5	1541.5	1541.5	1541.5
2.5°	1551.1	1537.6	1541.5	1538.2	1530.9
5°	1549.5	1532.6	1537.6	1532.2	1529.6
7.5°	1537.6	1520.9	1525.9	1520.5	1519.0
10°	1526.9	1511.4	1516.3	1511.0	1508.4
12.5°	1515.3	1498.6	1504.6	1498.2	1495.6
15°	1491.1	1475.5	1481.8	1476.4	1473.8
17.5°	1464.5	1447.9	1454.2	1448.0	1444.6
20°	1443.3	1427.7	1434.0	1424.7	1423.4
22.5°	1419.9	1404.3	1410.6	1398.1	1397.9
25°	1382.2	1365.3	1372.9	1358.3	1357.0
27.5°	1337.3	1321.8	1328.0	1313.1	1311.6
30°	1306.5	1291.0	1297.2	1281.2	1278.6
32.5°	1271.5	1256.9	1262.2	1246.2	1244.7
35°	1217.6	1203.3	1206.9	1191.0	1189.7
37.5°	1156.2	1143.2	1145.3	1127.8	1126.5
40°	1112.7	1099.7	1100.7	1082.1	1080.8
42.5°	1064.9	1051.9	1050.8	1032.2	1030.9
45°	985.2	972.2	967.9	950.6	948.0
47.5°	894.4	881.4	873.4	859.3	857.5
50°	828.5	815.5	808.6	796.6	792.7
52.5°	757.4	744.4	738.5	727.5	723.6
55°	645.3	634.9	630.7	620.0	617.4
57.5°	538.8	531.8	530.6	520.2	519.2
60°	474.0	470.1	470.0	460.7	460.7
62.5°	418.8	415.9	418.0	411.9	410.8
65°	346.5	344.0	347.9	345.2	345.2
67.5°	289.5	289.5	291.8	290.8	290.8
70°	257.6	257.6	258.9	258.9	258.9
72.5°	228.9	227.9	231.3	231.3	230.2
75°	187.2	187.2	187.2	188.5	188.5
77.5°	145.8	146.0	147.1	146.8	145.8
80°	118.2	119.5	119.5	118.2	118.2
82.5°	90.6	91.9	91.9	91.6	90.6
85°	47.8	50.4	53.1	53.1	53.1
87.5°	14.1	18.9	23.1	23.3	22.2
90°	1.6	4.6	9.4	10.2	10.2
92.5°	19.2	67.7	133.8	64.4	44.7
95°	44.0	156.8	472.6	241.7	167.2
97.5°	70.2	179.5	741.2	619.2	466.9
100°	90.3	188.5	826.6	864.9	717.5
102.5°	109.7	201.2	854.9	1048.9	927.9
105°	143.7	223.5	858.8	1284.9	1205.8
107.5°	175.7	246.9	822.2	1406.1	1426.6
110°	197.0	264.6	789.0	1443.8	1518.2

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	219.7	282.3	756.9	1435.5	1557.8
115°	253.6	310.4	715.2	1381.8	1563.0
117.5°	284.5	337.8	682.8	1296.3	1498.0
120°	304.6	356.0	666.5	1234.8	1442.1
122.5°	322.2	373.0	654.6	1172.0	1378.7
125°	346.2	397.6	642.2	1085.3	1277.2
127.5°	369.3	419.9	634.3	1008.9	1180.2
130°	383.1	433.8	631.2	965.1	1115.5
132.5°	396.9	447.0	628.0	926.5	1064.7
135°	416.9	465.2	624.1	875.6	991.5
137.5°	435.8	482.2	622.1	832.4	927.6
140°	449.0	493.6	620.2	805.8	891.8
142.5°	462.9	504.3	618.9	781.0	853.5
145°	482.0	519.6	616.2	748.6	803.9
147.5°	502.7	535.4	613.6	721.3	764.8
150°	516.5	544.9	612.3	704.2	740.3
152.5°	529.1	553.8	611.7	690.2	719.6
155°	547.2	567.1	610.8	671.7	693.2
157.5°	563.0	578.5	610.9	658.7	673.1
160°	573.1	586.1	611.5	651.0	661.8
162.5°	581.9	592.5	612.2	644.7	652.4
165°	593.5	600.4	613.1	637.5	640.6
167.5°	602.9	606.9	613.9	632.0	633.2
170°	609.2	610.7	613.9	628.8	628.8
172.5°	613.0	613.3	614.5	625.7	625.7
175°	617.0	616.3	613.9	622.5	621.0
177.5°	618.8	617.5	614.4	619.4	618.1
180°	616.2	616.2	616.2	616.2	616.2

(END OF REPORT)