

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: P563680

Luminaire Tested: **SQ4-PP3-125U-050D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563680  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-125U-050D-940-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

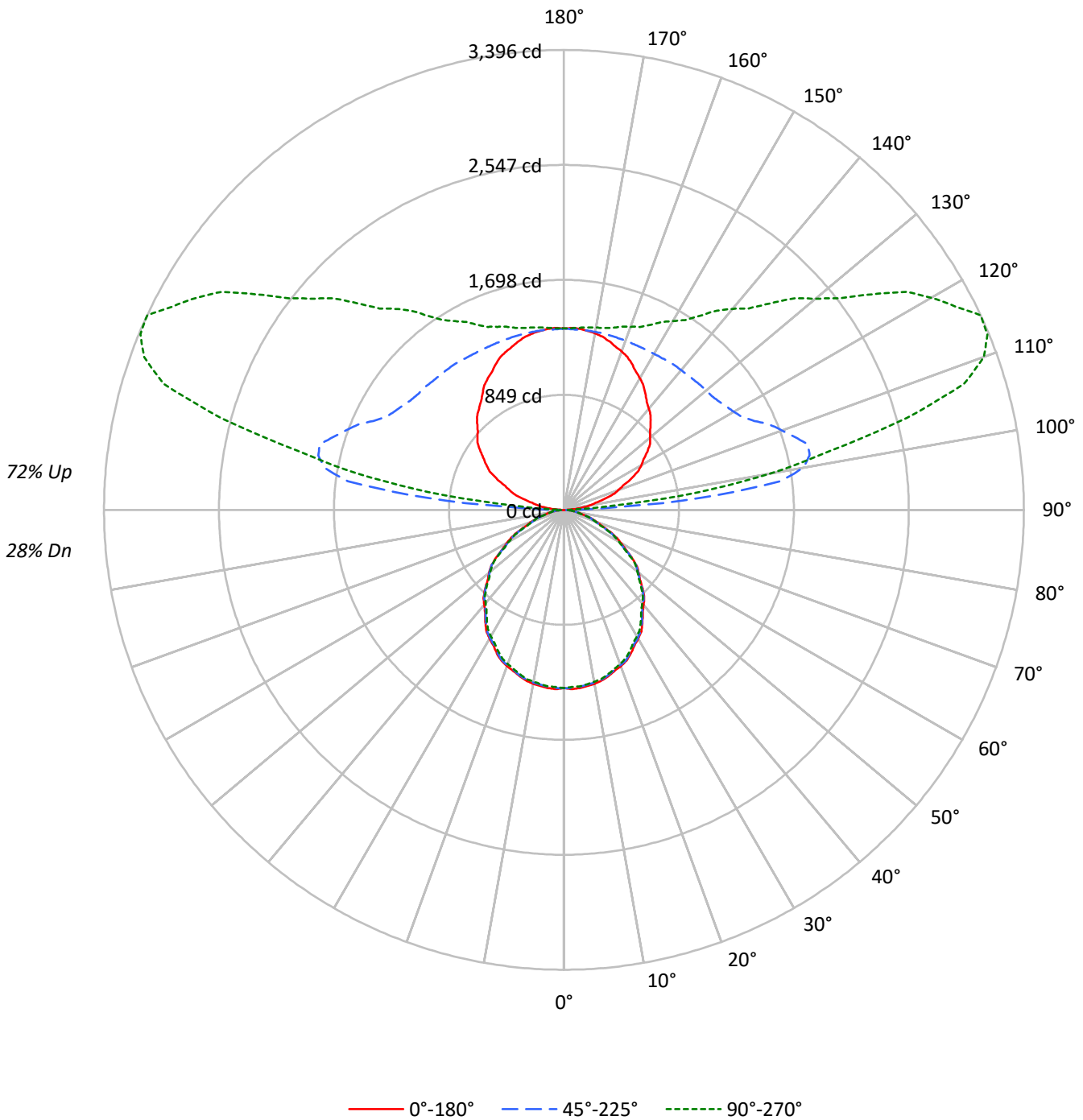
Lumens per Lamp: N/A  
Luminaire Lumens: 12017.1 lumens  
Efficiency: N/A  
Efficacy: 124.1 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Indirect

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



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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	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	48	41	39	37	28	27	26	20
3	77	68	61	56	69	61	55	51	48	44	41	36	34	31	25	23	22	17
4	71	60	53	47	63	54	48	43	43	38	35	32	29	27	22	21	19	15
5	65	54	46	40	58	48	42	37	38	33	30	29	26	23	20	18	17	13
6	60	48	40	35	53	43	37	32	34	29	26	26	23	20	18	16	15	11
7	55	43	36	30	49	39	32	28	31	26	23	24	20	18	17	15	13	10
8	51	39	32	26	45	35	29	24	28	23	20	22	18	16	15	13	12	9
9	47	35	28	23	42	32	26	22	26	21	18	20	16	14	14	12	10	8
10	44	32	25	21	39	29	23	19	24	19	16	18	15	13	13	11	9	7

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

	0°	45°	90°
0°	6075	6075	6075
5°	6119	6082	6060
10°	6109	6066	6038
15°	6069	6035	6002
20°	6028	5994	5949
25°	5957	5916	5857
30°	5846	5816	5742
35°	5694	5655	5583
40°	5511	5476	5414
45°	5361	5323	5271
50°	5169	5135	5085
55°	4901	4836	4799
60°	4462	4334	4312
65°	3931	3767	3754
70°	3394	3253	3253
75°	2921	2880	2839
80°	2574	2606	2545
85°	2017	2197	2197



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.5	1.0
10°-20°	355.5	3.0
20°-30°	532.6	4.4
30°-40°	624.7	5.2
40°-50°	626.6	5.2
50°-60°	534.6	4.4
60°-70°	348.6	2.9
70°-80°	174.9	1.5
80°-90°	51.5	0.4
90°-100°	626.4	5.2
100°-110°	1687.3	14.0
110°-120°	1770.7	14.7
120°-130°	1436.9	12.0
130°-140°	1126.9	9.4
140°-150°	865.2	7.2
150°-160°	622.1	5.2
160°-170°	380.0	3.2
170°-180°	128.2	1.1
0°-30°	1012.6	8.4
0°-40°	1637.3	13.6
0°-60°	2798.4	23.3
0°-90°	3373.5	28.1
90°-120°	4084.4	34.0
90°-150°	7513.4	62.5
90°-180°	8644.0	71.9
0°-180°	12017.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1317	1317	1317	1317	1317	
5°	1321	1309	1313	1309	1309	125
15°	1271	1258	1264	1259	1257	358
25°	1170	1157	1162	1152	1151	538
35°	1011	1001	1004	992	991	632
45°	822	816	816	808	808	633
55°	609	607	601	598	597	542
65°	360	353	345	343	344	359
75°	164	164	162	160	159	178
85°	38	42	42	42	42	45
90°	3	10	20	22	22	8
95°	96	341	1027	525	363	100
105°	312	486	1866	2792	2620	328
115°	551	674	1554	3002	3396	542
125°	752	864	1395	2358	2775	672
135°	906	1011	1356	1902	2154	699
145°	1047	1129	1339	1626	1747	657
155°	1189	1232	1327	1459	1506	547
165°	1290	1304	1332	1385	1392	364
175°	1341	1339	1334	1352	1349	127
180°	1339	1339	1339	1339	1339	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1316.8	1316.8	1316.8	1316.8	1316.8
2.5°	1325.1	1314.3	1316.8	1314.9	1309.4
5°	1321.4	1309.0	1313.4	1308.7	1308.7
7.5°	1312.4	1298.9	1303.2	1298.6	1298.4
10°	1304.1	1290.6	1294.9	1290.3	1289.1
12.5°	1292.1	1278.6	1283.8	1278.3	1278.0
15°	1270.7	1258.2	1263.7	1259.1	1256.8
17.5°	1246.4	1232.9	1239.5	1233.0	1232.1
20°	1228.0	1214.4	1221.0	1211.8	1211.8
22.5°	1205.8	1192.3	1199.8	1187.8	1187.8
25°	1170.3	1156.7	1162.2	1151.8	1150.6
27.5°	1128.0	1114.7	1120.4	1108.6	1108.4
30°	1097.5	1085.1	1091.8	1079.1	1077.9
32.5°	1064.3	1052.8	1057.6	1044.9	1043.8
35°	1011.0	1000.8	1004.1	992.5	991.4
37.5°	954.9	944.5	948.2	938.3	937.8
40°	915.2	908.4	909.4	901.3	899.0
42.5°	878.3	870.6	871.6	863.5	863.0
45°	821.7	816.1	815.9	807.9	807.9
47.5°	761.7	757.4	756.2	749.5	749.2
50°	720.2	716.8	715.5	709.7	708.6
52.5°	676.8	675.2	671.2	666.4	666.1
55°	609.4	607.1	601.3	597.8	596.7
57.5°	536.2	531.7	525.1	520.1	521.0
60°	483.6	479.1	469.7	467.4	467.4
62.5°	432.8	427.4	418.0	414.8	416.6
65°	360.1	353.3	345.1	342.8	343.9
67.5°	294.1	288.0	279.1	279.0	278.1
70°	251.6	248.2	241.2	241.2	241.2
72.5°	213.7	212.2	207.0	207.0	206.1
75°	163.9	163.9	161.6	160.4	159.3
77.5°	122.8	123.2	122.1	120.9	118.9
80°	96.9	99.2	98.1	96.9	95.8
82.5°	72.9	75.2	75.0	72.9	72.7
85°	38.1	41.5	41.5	41.5	41.5
87.5°	10.8	15.8	18.9	19.2	20.1
90°	3.4	10.1	20.5	22.2	22.2
92.5°	41.6	147.0	290.6	139.9	97.2
95°	95.5	340.7	1026.8	525.1	363.3
97.5°	152.5	390.0	1610.5	1345.4	1014.5
100°	196.2	409.6	1796.1	1879.2	1559.0
102.5°	238.5	437.2	1857.5	2278.9	2016.1
105°	312.1	485.6	1866.0	2791.7	2619.9
107.5°	381.7	536.5	1786.5	3055.2	3099.5
110°	428.1	574.9	1714.2	3137.0	3298.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	477.2	613.3	1644.6	3118.9	3384.7
115°	550.9	674.3	1553.9	3002.4	3396.0
117.5°	618.1	733.9	1483.6	2816.4	3254.7
120°	661.8	773.5	1448.1	2683.0	3133.3
122.5°	700.0	810.4	1422.2	2546.5	2995.5
125°	752.2	863.9	1395.2	2358.2	2775.1
127.5°	802.3	912.4	1378.2	2192.0	2564.3
130°	832.4	942.4	1371.3	2096.9	2423.7
132.5°	862.4	971.1	1364.5	2013.0	2313.2
135°	905.7	1010.8	1356.0	1902.4	2154.2
137.5°	947.0	1047.7	1351.6	1808.6	2015.4
140°	975.6	1072.4	1347.5	1750.8	1937.6
142.5°	1005.7	1095.7	1344.7	1697.0	1854.4
145°	1047.3	1129.0	1338.9	1626.5	1746.6
147.5°	1092.3	1163.3	1333.1	1567.3	1661.6
150°	1122.3	1184.0	1330.4	1530.0	1608.4
152.5°	1149.6	1203.3	1329.0	1499.7	1563.4
155°	1188.8	1232.2	1327.0	1459.4	1506.1
157.5°	1223.3	1257.0	1327.3	1431.1	1462.4
160°	1245.1	1273.5	1328.7	1414.5	1437.9
162.5°	1264.2	1287.2	1330.1	1400.7	1417.4
165°	1289.5	1304.5	1332.1	1385.1	1391.8
167.5°	1309.9	1318.6	1333.8	1373.1	1375.8
170°	1323.6	1326.9	1333.8	1366.2	1366.2
172.5°	1331.8	1332.4	1335.2	1359.4	1359.4
175°	1340.6	1339.0	1333.8	1352.5	1349.2
177.5°	1344.4	1341.7	1334.8	1345.7	1343.0
180°	1338.9	1338.9	1338.9	1338.9	1338.9

(END OF REPORT)