

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: P564375

Luminaire Tested: **SQ4-PR1-125U-075D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564375  
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-075D-940-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

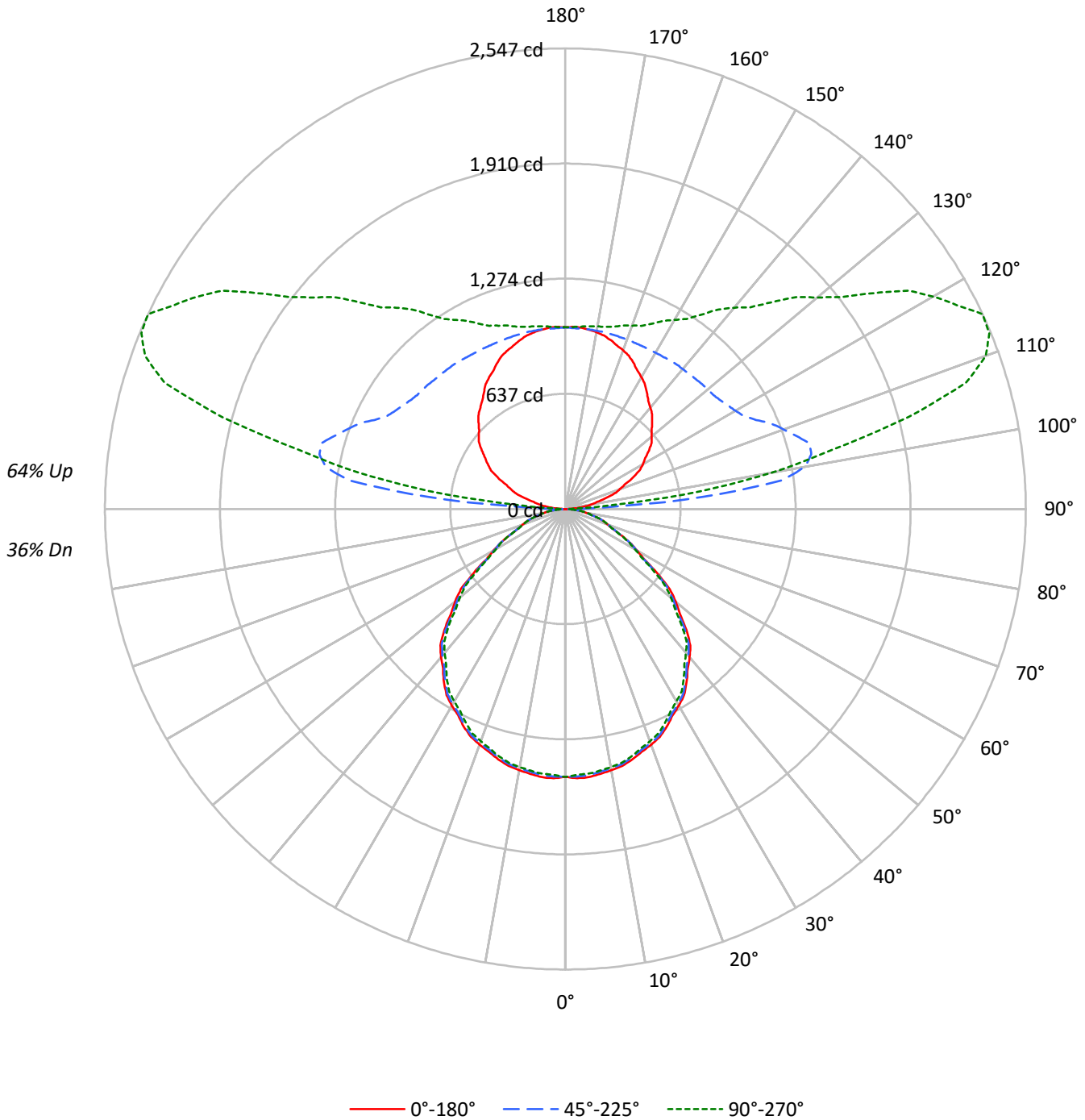
Lumens per Lamp: N/A  
Luminaire Lumens: 10188.7 lumens  
Efficiency: N/A  
Efficacy: 115.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 87.9  
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



TEST NUMBER: P564375  
CATALOG NUMBER: SQ4-PR1-125U-075D-940-1D-UNV-STD-W-6

### Luminous Intensity Polar Plot





TEST NUMBER: P564375

CATALOG NUMBER: SQ4-PR1-125U-075D-940-1D-UNV-STD-W-6

**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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	36
1	95	91	87	84	86	82	79	76	67	64	62	52	51	49	39	38	37	31
2	87	79	74	69	78	72	67	63	59	55	52	46	44	42	34	33	32	26
3	79	70	63	57	71	64	58	53	52	48	44	41	38	35	31	29	27	23
4	72	62	54	49	65	56	50	45	46	41	38	36	33	30	28	25	24	19
5	66	55	47	42	60	50	44	38	41	36	32	33	29	26	25	22	21	17
6	61	49	42	36	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	45	37	31	51	41	34	29	34	29	25	27	23	20	21	18	16	13
8	52	40	33	28	47	37	30	26	31	26	22	25	21	18	19	16	14	12
9	49	37	30	25	44	34	27	23	28	23	20	23	19	16	17	15	13	11
10	45	34	27	22	41	31	25	21	26	21	18	21	17	15	16	14	12	10

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

	0°	45°	90°
0°	9112	9112	9112
5°	9195	9124	9076
10°	9166	9102	9054
15°	9125	9068	9019
20°	9079	9020	8954
25°	9015	8954	8850
30°	8918	8854	8727
35°	8786	8709	8585
40°	8586	8493	8340
45°	8236	8091	7925
50°	7620	7436	7290
55°	6651	6500	6363
60°	5605	5557	5447
65°	4846	4865	4829
70°	4453	4474	4474
75°	4275	4275	4306
80°	4024	4066	4024
85°	3239	3599	3599



TEST NUMBER: P564375

CATALOG NUMBER: SQ4-PR1-125U-075D-940-1D-UNV-STD-W-6

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.1	1.4
10°-20°	400.8	3.9
20°-30°	604.6	5.9
30°-40°	720.4	7.1
40°-50°	710.2	7.0
50°-60°	542.8	5.3
60°-70°	335.9	3.3
70°-80°	190.8	1.9
80°-90°	60.4	0.6
90°-100°	469.8	4.6
100°-110°	1265.4	12.4
110°-120°	1328.0	13.0
120°-130°	1077.7	10.6
130°-140°	845.2	8.3
140°-150°	648.9	6.4
150°-160°	466.6	4.6
160°-170°	285.0	2.8
170°-180°	96.1	0.9
0°-30°	1145.5	11.2
0°-40°	1865.9	18.3
0°-60°	3118.9	30.6
0°-90°	3705.9	36.4
90°-120°	3063.3	30.1
90°-150°	5635.0	55.3
90°-180°	6483.0	63.6
0°-180°	10188.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1482	1482	1482	1482	1482	
5°	1489	1473	1478	1472	1470	141
15°	1433	1418	1424	1419	1416	404
25°	1328	1312	1319	1305	1304	611
35°	1170	1156	1160	1145	1143	730
45°	947	934	930	914	911	725
55°	620	610	606	596	593	556
65°	333	331	334	332	332	337
75°	180	180	180	181	181	190
85°	46	48	51	51	51	53
90°	3	8	15	17	17	7
95°	72	256	770	394	272	75
105°	234	364	1400	2094	1965	246
115°	413	506	1165	2252	2547	407
125°	564	648	1046	1769	2081	504
135°	679	758	1017	1427	1616	524
145°	786	847	1004	1220	1310	493
155°	892	924	995	1094	1130	410
165°	967	978	999	1039	1044	273
175°	1006	1004	1000	1014	1012	96
180°	1004	1004	1004	1004	1004	

TEST NUMBER: P564375

CATALOG NUMBER: SQ4-PR1-125U-075D-940-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1481.5	1481.5	1481.5	1481.5	1481.5
2.5°	1490.7	1477.7	1481.5	1478.3	1471.3
5°	1489.2	1472.9	1477.7	1472.5	1470.0
7.5°	1477.7	1461.7	1466.4	1461.3	1459.8
10°	1467.5	1452.5	1457.3	1452.1	1449.6
12.5°	1456.2	1440.3	1446.0	1439.8	1437.3
15°	1433.0	1418.0	1424.1	1418.9	1416.4
17.5°	1407.5	1391.5	1397.5	1391.6	1388.3
20°	1387.1	1372.1	1378.1	1369.2	1367.9
22.5°	1364.6	1349.6	1355.7	1343.7	1343.4
25°	1328.4	1312.1	1319.4	1305.4	1304.1
27.5°	1285.2	1270.3	1276.3	1262.0	1260.5
30°	1255.6	1240.7	1246.7	1231.3	1228.8
32.5°	1221.9	1208.0	1213.0	1197.7	1196.2
35°	1170.1	1156.4	1159.9	1144.6	1143.3
37.5°	1111.2	1098.7	1100.7	1083.8	1082.6
40°	1069.3	1056.9	1057.8	1040.0	1038.7
42.5°	1023.4	1010.9	1009.9	992.0	990.7
45°	946.8	934.4	930.2	913.6	911.1
47.5°	859.5	847.1	839.4	825.8	824.1
50°	796.3	783.8	777.1	765.5	761.8
52.5°	727.9	715.4	709.7	699.2	695.4
55°	620.2	610.2	606.1	595.9	593.4
57.5°	517.8	511.1	509.9	499.9	498.9
60°	455.6	451.8	451.7	442.8	442.8
62.5°	402.5	399.7	401.7	395.8	394.8
65°	333.0	330.6	334.3	331.8	331.8
67.5°	278.2	278.2	280.5	279.5	279.5
70°	247.6	247.6	248.8	248.8	248.8
72.5°	220.0	219.0	222.3	222.3	221.3
75°	179.9	179.9	179.9	181.2	181.2
77.5°	140.1	140.4	141.4	141.1	140.1
80°	113.6	114.8	114.8	113.6	113.6
82.5°	87.0	88.3	88.3	88.0	87.0
85°	45.9	48.4	51.0	51.0	51.0
87.5°	13.8	18.8	23.5	23.7	22.7
90°	2.6	7.6	15.4	16.6	16.6
92.5°	31.2	110.3	218.0	104.9	72.9
95°	71.6	255.5	770.1	393.8	272.5
97.5°	114.4	292.5	1207.9	1009.1	760.9
100°	147.1	307.2	1347.0	1409.4	1169.2
102.5°	178.8	327.9	1393.1	1709.2	1512.1
105°	234.1	364.2	1399.5	2093.7	1964.9
107.5°	286.3	402.4	1339.9	2291.4	2324.6
110°	321.1	431.2	1285.6	2352.7	2474.1

TEST NUMBER: P564375

CATALOG NUMBER: SQ4-PR1-125U-075D-940-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	357.9	460.0	1233.4	2339.1	2538.5
115°	413.2	505.8	1165.4	2251.8	2547.0
117.5°	463.6	550.4	1112.7	2112.3	2441.0
120°	496.3	580.2	1086.1	2012.2	2350.0
122.5°	525.0	607.8	1066.6	1909.9	2246.6
125°	564.1	648.0	1046.4	1768.6	2081.3
127.5°	601.8	684.3	1033.6	1644.0	1923.2
130°	624.3	706.8	1028.5	1572.6	1817.8
132.5°	646.8	728.3	1023.4	1509.8	1734.9
135°	679.3	758.1	1017.0	1426.8	1615.7
137.5°	710.2	785.8	1013.7	1356.5	1511.6
140°	731.7	804.3	1010.6	1313.1	1453.2
142.5°	754.2	821.8	1008.6	1272.7	1390.8
145°	785.5	846.7	1004.2	1219.9	1309.9
147.5°	819.2	872.5	999.9	1175.4	1246.2
150°	841.7	888.0	997.8	1147.5	1206.3
152.5°	862.2	902.5	996.8	1124.8	1172.6
155°	891.6	924.2	995.2	1094.5	1129.6
157.5°	917.5	942.7	995.5	1073.3	1096.8
160°	933.8	955.1	996.5	1060.9	1078.4
162.5°	948.2	965.4	997.6	1050.5	1063.0
165°	967.1	978.4	999.1	1038.9	1043.9
167.5°	982.5	989.0	1000.4	1029.8	1031.8
170°	992.7	995.2	1000.4	1024.7	1024.7
172.5°	998.8	999.3	1001.4	1019.6	1019.6
175°	1005.5	1004.2	1000.4	1014.4	1011.9
177.5°	1008.3	1006.3	1001.1	1009.3	1007.3
180°	1004.2	1004.2	1004.2	1004.2	1004.2

(END OF REPORT)