

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: P563584

Luminaire Tested: **SQ4-PP3-100U-050D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563584  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PP3-100U-050D-940-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

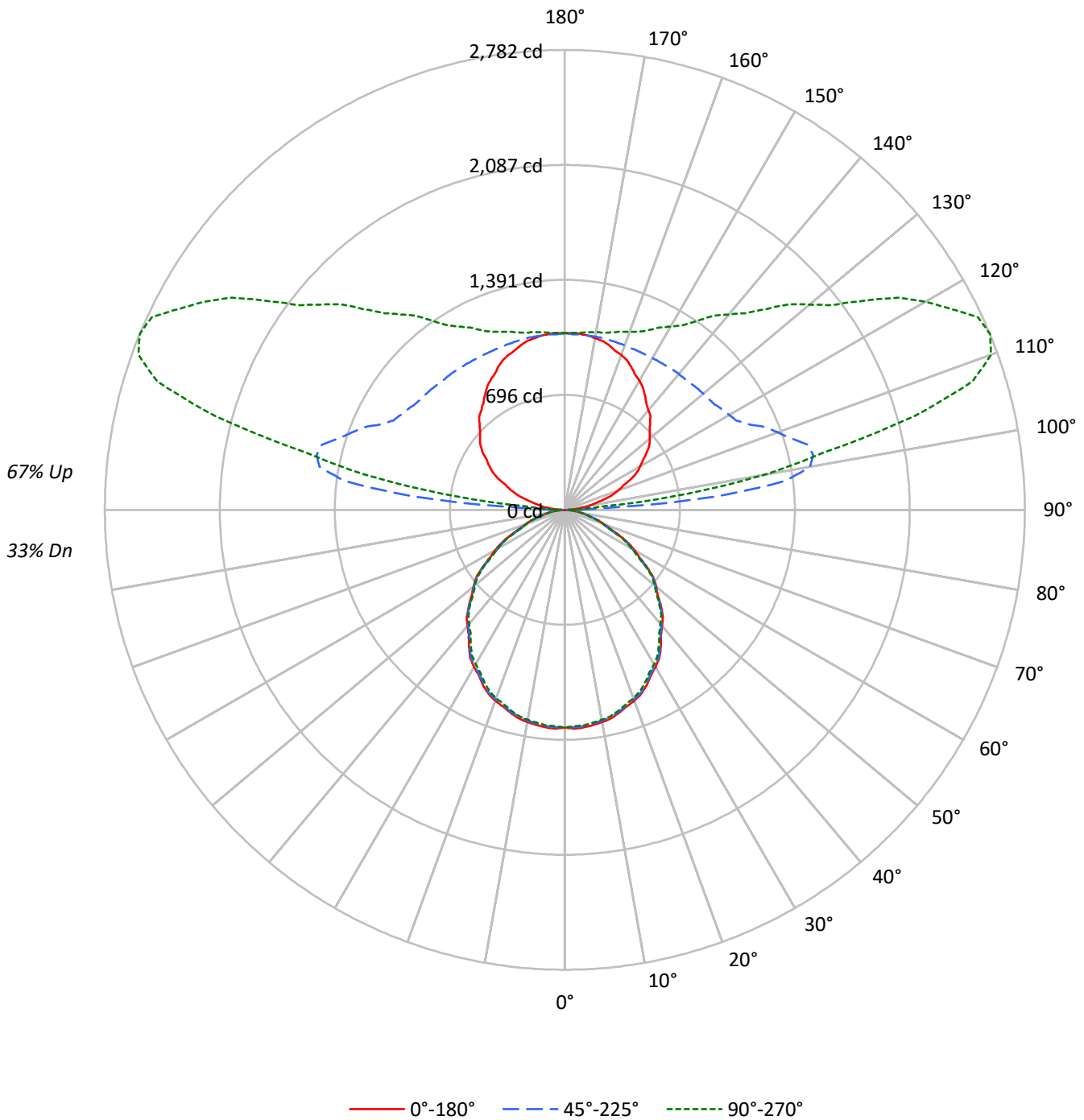
Lumens per Lamp: N/A  
Luminaire Lumens: 10316.6 lumens  
Efficiency: N/A  
Efficacy: 121.8 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 84.7  
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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	33
1	94	90	86	83	85	81	78	75	65	63	61	50	48	47	36	35	34	28
2	86	79	73	68	77	71	66	62	57	53	50	44	41	39	32	30	29	23
3	78	69	62	56	70	63	57	52	50	46	42	39	36	33	28	26	25	20
4	71	61	53	48	64	55	49	44	45	40	36	34	31	29	25	23	21	17
5	66	54	47	41	59	49	43	37	40	35	31	31	27	25	23	20	19	15
6	60	49	41	35	54	44	37	32	36	31	27	28	24	22	20	18	16	13
7	56	44	36	31	50	40	33	28	32	27	24	25	22	19	19	16	15	12
8	52	40	32	27	46	36	30	25	29	24	21	23	20	17	17	15	13	10
9	48	36	29	24	43	33	27	22	27	22	19	21	18	15	16	13	12	9
10	45	33	26	21	40	30	24	20	25	20	17	19	16	14	15	12	11	9

**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	1.2
10°-20°	355.5	3.4
20°-30°	532.6	5.2
30°-40°	624.7	6.1
40°-50°	626.6	6.1
50°-60°	534.6	5.2
60°-70°	348.6	3.4
70°-80°	174.9	1.7
80°-90°	50.6	0.5
90°-100°	500.5	4.9
100°-110°	1381.7	13.4
110°-120°	1425.0	13.8
120°-130°	1145.1	11.1
130°-140°	899.9	8.7
140°-150°	690.2	6.7
150°-160°	496.0	4.8
160°-170°	303.4	2.9
170°-180°	102.3	1.0
0°-30°	1012.6	9.8
0°-40°	1637.3	15.9
0°-60°	2798.4	27.1
0°-90°	3372.6	32.7
90°-120°	3307.2	32.1
90°-150°	6042.4	58.6
90°-180°	6944.0	67.3
0°-180°	10316.6	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	7	14	15	17	7
95°	74	271	908	373	243	79
105°	246	380	1520	2321	2185	262
115°	441	533	1224	2424	2756	434
125°	605	689	1110	1878	2204	539
135°	728	807	1079	1521	1715	564
145°	845	903	1065	1295	1394	529
155°	952	984	1057	1162	1199	439
165°	1031	1044	1062	1103	1112	291
175°	1069	1070	1064	1079	1076	102
180°	1069	1069	1069	1069	1069	



TEST NUMBER: P563584

CATALOG NUMBER: SQ4-PP3-100U-050D-940-1D-UNV-STD-W-8

**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	15.1	17.5	17.9	19.1
90°	3.4	6.8	13.7	15.4	17.1
92.5°	30.8	127.8	228.5	83.4	65.0
95°	73.5	270.8	908.0	373.2	242.8
97.5°	121.7	303.3	1345.1	1035.6	750.0
100°	157.3	322.8	1506.5	1517.1	1232.9
102.5°	191.5	345.0	1537.9	1874.5	1605.0
105°	246.2	380.0	1520.2	2320.8	2185.3
107.5°	304.4	423.4	1435.3	2536.0	2585.5
110°	345.4	452.4	1369.7	2582.3	2742.8



TEST NUMBER: P563584

CATALOG NUMBER: SQ4-PP3-100U-050D-940-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	382.3	485.3	1308.1	2545.7	2782.5
115°	441.2	533.1	1224.3	2423.8	2756.5
117.5°	492.5	584.1	1169.3	2252.1	2630.6
120°	526.7	617.0	1147.4	2135.9	2517.1
122.5°	559.5	645.8	1129.6	2027.3	2388.5
125°	605.3	688.9	1109.8	1878.1	2204.2
127.5°	644.3	727.9	1098.1	1751.9	2033.2
130°	670.3	753.9	1092.7	1674.7	1930.6
132.5°	694.9	774.5	1087.2	1609.9	1841.6
135°	728.4	807.0	1079.0	1521.2	1715.1
137.5°	766.1	837.6	1074.9	1446.6	1612.2
140°	786.6	856.8	1072.2	1396.9	1542.4
142.5°	809.8	874.7	1069.4	1352.8	1480.8
145°	844.7	903.2	1065.3	1295.0	1393.6
147.5°	878.2	929.4	1061.5	1246.3	1322.8
150°	902.9	944.7	1060.2	1217.2	1279.1
152.5°	922.0	961.1	1058.8	1192.3	1243.5
155°	952.5	984.2	1056.8	1161.9	1198.7
157.5°	980.5	1004.9	1057.1	1139.8	1164.8
160°	996.9	1018.6	1058.5	1127.3	1145.7
162.5°	1010.6	1029.7	1059.8	1116.3	1130.6
165°	1031.1	1044.5	1061.9	1103.1	1111.5
167.5°	1046.8	1054.9	1063.6	1095.1	1097.8
170°	1055.1	1061.7	1063.6	1091.0	1091.0
172.5°	1061.9	1065.9	1063.6	1085.5	1084.1
175°	1068.7	1070.4	1063.6	1078.9	1075.6
177.5°	1071.5	1070.1	1063.3	1072.8	1070.1
180°	1068.7	1068.7	1068.7	1068.7	1068.7

(END OF REPORT)