

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: P563246

Luminaire Tested: **SQ4-PP3-025U-100D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563246  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PP3-025U-100D-940-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

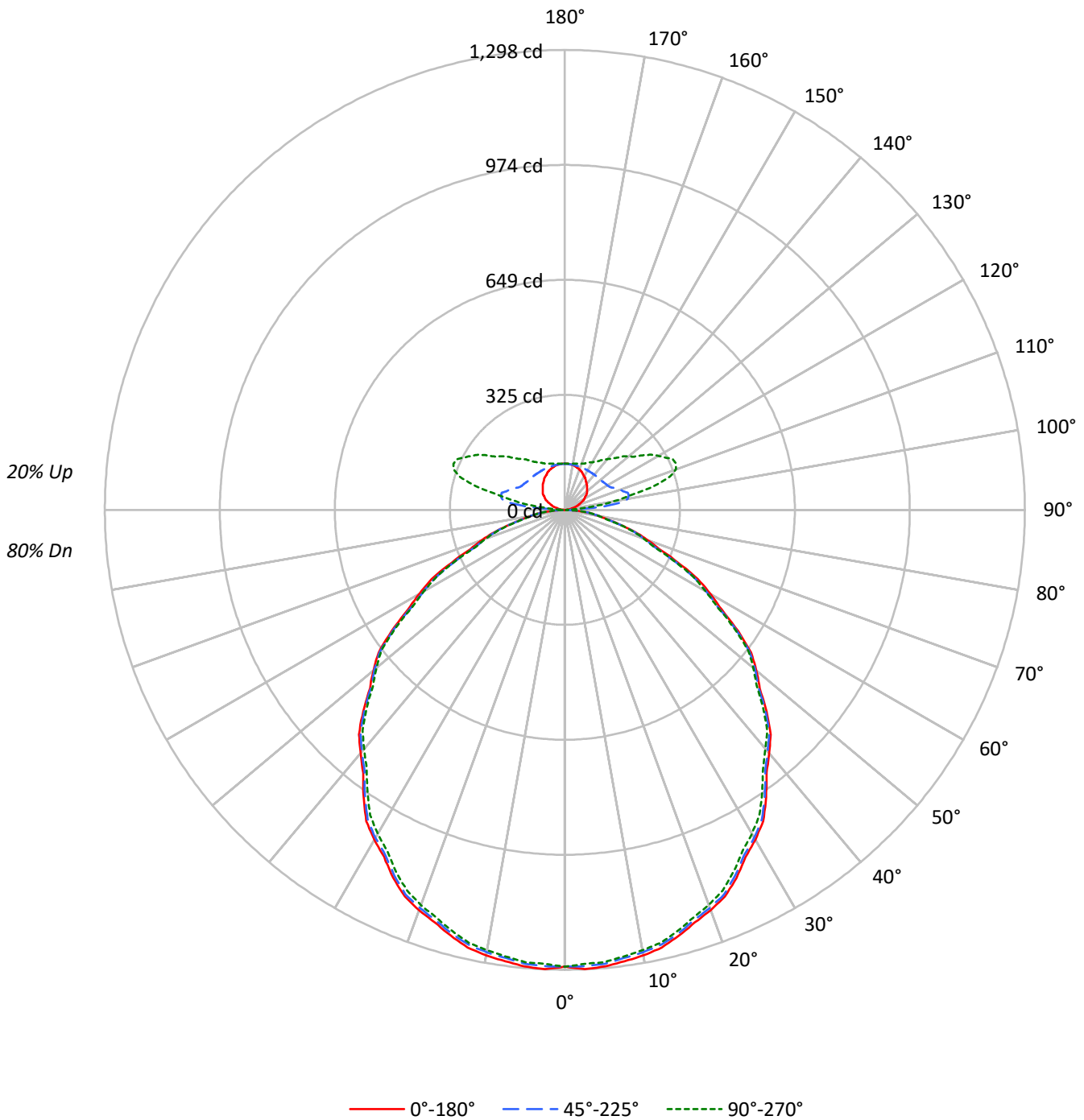
Lumens per Lamp: N/A  
Luminaire Lumens: 4144.3 lumens  
Efficiency: N/A  
Efficacy: 107.1 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 38.7  
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



TEST NUMBER: P563246  
CATALOG NUMBER: SQ4-PP3-025U-100D-940-1D-UNV-STD-W-4

### Luminous Intensity Polar Plot





TEST NUMBER: P563246

CATALOG NUMBER: SQ4-PP3-025U-100D-940-1D-UNV-STD-W-4

**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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	80
1	105	100	96	93	100	96	93	89	88	85	83	81	79	77	74	73	71	68
2	96	88	82	76	91	84	79	74	78	73	69	71	68	65	66	63	60	57
3	87	78	70	64	83	75	68	62	69	63	59	63	59	55	58	55	52	49
4	80	69	61	55	76	66	59	53	61	55	50	57	52	47	52	48	45	42
5	74	62	53	47	70	59	52	46	55	49	44	51	46	41	47	43	39	36
6	68	56	47	41	65	54	46	40	50	43	38	46	41	36	43	38	34	32
7	63	50	42	36	60	49	41	35	45	39	34	42	36	32	39	34	31	28
8	59	46	38	32	56	44	37	32	41	35	30	39	33	29	36	31	28	25
9	55	42	34	29	52	41	33	28	38	32	27	36	30	26	33	28	25	23
10	51	39	31	26	49	38	30	26	35	29	25	33	28	24	31	26	23	21

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

	0°	45°	90°
0°	11896	11896	11896
5°	11983	11910	11869
10°	11964	11878	11826
15°	11884	11819	11754
20°	11806	11739	11650
25°	11665	11585	11470
30°	11449	11389	11245
35°	11149	11074	10933
40°	10793	10725	10602
45°	10498	10425	10321
50°	10122	10056	9960
55°	9598	9471	9397
60°	8737	8486	8446
65°	7698	7377	7353
70°	6647	6372	6372
75°	5721	5639	5557
80°	5042	5106	4984
85°	3949	4308	4308



TEST NUMBER: P563246

CATALOG NUMBER: SQ4-PP3-025U-100D-940-1D-UNV-STD-W-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.9	2.9
10°-20°	348.1	8.4
20°-30°	521.5	12.6
30°-40°	611.6	14.8
40°-50°	613.6	14.8
50°-60°	523.4	12.6
60°-70°	341.4	8.2
70°-80°	171.3	4.1
80°-90°	48.1	1.2
90°-100°	63.4	1.5
100°-110°	166.7	4.0
110°-120°	172.9	4.2
120°-130°	138.7	3.3
130°-140°	108.8	2.6
140°-150°	83.5	2.0
150°-160°	60.2	1.5
160°-170°	36.8	0.9
170°-180°	12.4	0.3
0°-30°	991.5	23.9
0°-40°	1603.2	38.7
0°-60°	2740.1	66.1
0°-90°	3300.9	79.6
90°-120°	403.0	9.7
90°-150°	734.0	17.7
90°-180°	843.0	20.3
0°-180°	4144.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1289	1289	1289	1289	1289	
5°	1294	1282	1286	1282	1282	123
15°	1244	1232	1237	1233	1231	351
25°	1146	1133	1138	1128	1127	527
35°	990	980	983	972	971	618
45°	805	799	799	791	791	620
55°	597	594	589	585	584	530
65°	353	346	338	336	337	352
75°	160	160	158	157	156	174
85°	37	41	41	41	41	44
90°	1	2	7	3	3	2
95°	8	33	109	56	38	9
105°	30	46	184	280	261	32
115°	53	65	148	295	336	53
125°	74	83	134	227	268	66
135°	88	97	130	183	208	68
145°	103	109	128	156	168	64
155°	116	119	128	141	145	53
165°	125	127	128	134	135	35
175°	130	130	129	131	131	12
180°	130	130	130	130	130	

TEST NUMBER: P563246

CATALOG NUMBER: SQ4-PP3-025U-100D-940-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1289.4	1289.4	1289.4	1289.4	1289.4
2.5°	1297.5	1286.9	1289.4	1287.5	1282.2
5°	1293.9	1281.8	1286.0	1281.5	1281.5
7.5°	1285.1	1271.8	1276.1	1271.5	1271.3
10°	1277.0	1263.7	1267.9	1263.4	1262.3
12.5°	1265.2	1252.0	1257.1	1251.7	1251.4
15°	1244.2	1232.0	1237.4	1232.8	1230.6
17.5°	1220.5	1207.2	1213.7	1207.3	1206.5
20°	1202.4	1189.1	1195.6	1186.6	1186.6
22.5°	1180.7	1167.4	1174.8	1163.1	1163.1
25°	1145.9	1132.6	1138.0	1127.8	1126.7
27.5°	1104.5	1091.5	1097.1	1085.5	1085.3
30°	1074.7	1062.5	1069.0	1056.6	1055.5
32.5°	1042.1	1030.9	1035.6	1023.1	1022.0
35°	989.9	980.0	983.2	971.8	970.7
37.5°	935.0	924.8	928.5	918.7	918.3
40°	896.1	889.5	890.5	882.5	880.3
42.5°	860.0	852.5	853.4	845.5	845.1
45°	804.6	799.1	799.0	791.0	791.0
47.5°	745.8	741.6	740.4	733.9	733.6
50°	705.2	701.8	700.6	695.0	693.9
52.5°	662.7	661.1	657.2	652.5	652.3
55°	596.7	594.5	588.8	585.3	584.2
57.5°	525.0	520.6	514.2	509.2	510.1
60°	473.5	469.1	459.9	457.7	457.7
62.5°	423.8	418.5	409.3	406.2	408.0
65°	352.6	346.0	337.9	335.7	336.8
67.5°	287.9	282.0	273.2	273.2	272.3
70°	246.4	243.0	236.2	236.2	236.2
72.5°	209.3	207.7	202.7	202.7	201.8
75°	160.5	160.5	158.2	157.1	155.9
77.5°	120.2	120.7	119.6	118.4	116.4
80°	94.9	97.1	96.1	94.9	93.8
82.5°	71.4	73.6	73.5	71.4	71.2
85°	37.3	40.6	40.7	40.7	40.7
87.5°	10.1	14.0	15.8	15.2	16.0
90°	0.8	2.5	6.7	3.3	3.3
92.5°	3.5	16.9	37.4	16.5	10.7
95°	8.3	32.8	109.3	56.3	38.4
97.5°	14.5	36.0	163.5	130.0	95.8
100°	19.2	38.8	180.2	182.6	141.8
102.5°	23.2	41.5	184.8	227.4	192.5
105°	30.0	45.5	184.3	279.8	261.1
107.5°	37.0	51.4	173.8	307.1	311.6
110°	41.7	54.8	165.2	314.1	333.7



TEST NUMBER: P563246

CATALOG NUMBER: SQ4-PP3-025U-100D-940-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	46.4	58.8	157.2	309.6	339.7
115°	53.4	64.8	147.6	294.6	336.2
117.5°	60.2	70.7	141.1	273.6	319.8
120°	64.2	74.0	138.5	259.6	304.5
122.5°	68.2	78.0	136.5	245.6	289.8
125°	74.2	83.2	134.3	227.0	267.8
127.5°	79.1	88.2	132.5	212.0	246.4
130°	81.7	91.5	131.8	202.6	234.4
132.5°	84.4	94.2	131.1	194.5	223.0
135°	88.4	97.4	130.1	183.2	207.7
137.5°	92.6	101.4	130.0	174.8	194.9
140°	95.9	104.1	129.3	168.1	186.8
142.5°	98.6	106.1	129.3	163.4	179.5
145°	102.6	109.1	128.5	156.3	168.5
147.5°	106.6	113.0	128.5	150.4	160.5
150°	109.3	115.0	128.5	147.0	155.1
152.5°	111.9	116.3	128.5	144.3	150.5
155°	115.9	119.2	128.5	141.1	145.1
157.5°	118.9	122.0	128.5	138.2	141.1
160°	120.9	123.4	128.5	136.8	138.5
162.5°	123.0	124.7	128.5	135.5	137.1
165°	125.1	126.8	128.5	133.5	135.1
167.5°	127.1	127.9	129.3	132.6	133.3
170°	128.5	129.3	129.3	132.6	132.6
172.5°	129.1	129.3	129.3	131.9	131.3
175°	130.1	130.1	129.3	131.0	131.0
177.5°	130.1	130.1	129.5	130.8	130.1
180°	130.1	130.1	130.1	130.1	130.1

(END OF REPORT)