

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: P563422

Luminaire Tested: **SQ4-PP3-075U-100D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563422  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PP3-075U-100D-835-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

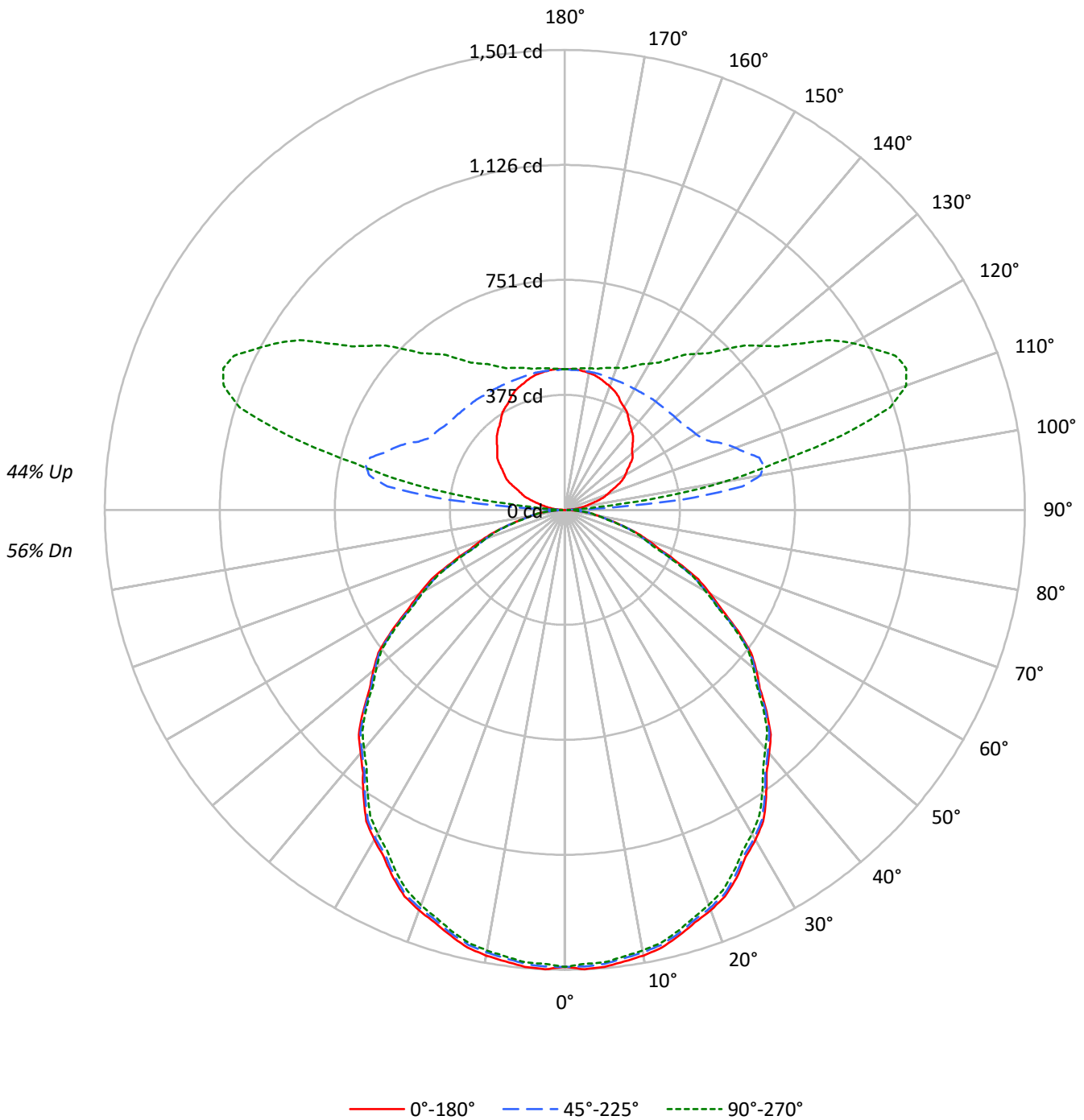
Lumens per Lamp: N/A  
Luminaire Lumens: 6812.5 lumens  
Efficiency: N/A  
Efficacy: 132.8 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 51.3  
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



TEST NUMBER: P563422  
CATALOG NUMBER: SQ4-PP3-075U-100D-835-1D-UNV-STD-W-4

### Luminous Intensity Polar Plot





TEST NUMBER: P563422

CATALOG NUMBER: SQ4-PP3-075U-100D-835-1D-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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56
1	99	95	91	88	92	89	85	82	76	74	72	65	63	62	55	54	53	48
2	91	83	77	72	84	78	72	68	67	63	60	58	55	52	49	46	45	40
3	83	73	66	60	77	69	62	57	59	54	50	51	47	44	43	40	38	34
4	76	65	57	51	70	61	54	48	53	47	43	46	41	38	39	36	33	30
5	70	58	50	44	65	54	47	42	47	42	37	41	36	33	35	31	29	26
6	64	52	44	38	60	49	42	36	43	37	33	37	32	29	32	28	25	23
7	59	47	39	33	55	44	37	32	39	33	29	34	29	26	29	25	23	20
8	55	43	35	30	51	40	33	28	35	30	26	31	26	23	27	23	20	18
9	51	39	32	26	48	37	30	25	32	27	23	28	24	21	24	21	18	16
10	48	36	29	24	45	34	27	23	30	24	21	26	22	19	23	19	17	15

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

	0°	45°	90°
0°	13761	13761	13761
5°	13863	13777	13729
10°	13839	13741	13680
15°	13747	13672	13598
20°	13656	13579	13477
25°	13494	13401	13268
30°	13244	13174	13007
35°	12897	12810	12647
40°	12485	12406	12264
45°	12144	12059	11940
50°	11708	11633	11520
55°	11102	10956	10871
60°	10106	9817	9769
65°	8905	8534	8505
70°	7688	7370	7370
75°	6616	6523	6431
80°	5834	5903	5765
85°	4563	4986	4986



TEST NUMBER: P563422

CATALOG NUMBER: SQ4-PP3-075U-100D-835-1D-UNV-STD-W-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.0	2.1
10°-20°	402.7	5.9
20°-30°	603.2	8.9
30°-40°	707.5	10.4
40°-50°	709.7	10.4
50°-60°	605.5	8.9
60°-70°	394.9	5.8
70°-80°	198.1	2.9
80°-90°	56.0	0.8
90°-100°	216.8	3.2
100°-110°	596.3	8.8
110°-120°	615.5	9.0
120°-130°	493.1	7.2
130°-140°	387.3	5.7
140°-150°	296.8	4.4
150°-160°	213.4	3.1
160°-170°	130.5	1.9
170°-180°	44.0	0.6
0°-30°	1147.0	16.8
0°-40°	1854.5	27.2
0°-60°	3169.7	46.5
0°-90°	3818.7	56.1
90°-120°	1428.6	21.0
90°-150°	2605.9	38.3
90°-180°	2994.0	43.9
0°-180°	6812.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1492	1492	1492	1492	1492	
5°	1497	1483	1488	1482	1482	142
15°	1439	1425	1431	1426	1424	406
25°	1326	1310	1316	1305	1303	610
35°	1145	1134	1137	1124	1123	715
45°	931	924	924	915	915	717
55°	690	688	681	677	676	613
65°	408	400	391	388	390	407
75°	186	186	183	182	180	201
85°	43	47	47	47	47	51
90°	1	4	7	9	9	4
95°	32	118	383	164	105	34
105°	107	164	657	1001	934	112
115°	189	230	527	1049	1191	186
125°	260	296	478	809	948	232
135°	314	348	464	654	740	242
145°	363	388	458	557	600	227
155°	411	424	455	501	515	189
165°	444	450	457	475	478	125
175°	460	460	458	463	462	44
180°	460	460	460	460	460	

TEST NUMBER: P563422

CATALOG NUMBER: SQ4-PP3-075U-100D-835-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1491.5	1491.5	1491.5	1491.5	1491.5
2.5°	1500.9	1488.7	1491.5	1489.3	1483.2
5°	1496.8	1482.7	1487.6	1482.4	1482.4
7.5°	1486.6	1471.2	1476.1	1470.9	1470.6
10°	1477.2	1461.8	1466.7	1461.4	1460.2
12.5°	1463.6	1448.2	1454.1	1447.9	1447.6
15°	1439.2	1425.2	1431.4	1426.1	1423.6
17.5°	1411.8	1396.5	1404.0	1396.6	1395.6
20°	1390.9	1375.5	1383.0	1372.6	1372.6
22.5°	1365.8	1350.4	1359.0	1345.4	1345.4
25°	1325.5	1310.2	1316.4	1304.6	1303.3
27.5°	1277.7	1262.6	1269.0	1255.7	1255.5
30°	1243.2	1229.1	1236.6	1222.2	1220.9
32.5°	1205.5	1192.5	1197.9	1183.5	1182.2
35°	1145.1	1133.6	1137.3	1124.2	1122.9
37.5°	1081.6	1069.8	1074.0	1062.8	1062.2
40°	1036.6	1029.0	1030.1	1020.9	1018.3
42.5°	994.8	986.1	987.2	978.0	977.5
45°	930.7	924.3	924.2	915.1	915.1
47.5°	862.8	857.9	856.5	848.9	848.6
50°	815.7	811.9	810.5	803.9	802.6
52.5°	766.6	764.8	760.3	754.8	754.5
55°	690.2	687.7	681.1	677.1	675.8
57.5°	607.3	602.2	594.8	589.1	590.1
60°	547.7	542.6	532.0	529.4	529.4
62.5°	490.2	484.1	473.5	469.9	471.9
65°	407.9	400.2	390.9	388.3	389.6
67.5°	333.1	326.2	316.1	316.1	315.0
70°	285.0	281.1	273.2	273.2	273.2
72.5°	242.1	240.3	234.5	234.5	233.5
75°	185.6	185.6	183.0	181.7	180.4
77.5°	139.1	139.6	138.3	136.9	134.6
80°	109.8	112.4	111.1	109.8	108.5
82.5°	82.6	85.2	85.0	82.6	82.4
85°	43.1	47.0	47.1	47.1	47.1
87.5°	11.7	16.4	18.1	18.5	19.5
90°	1.0	3.8	6.8	8.8	8.8
92.5°	13.5	57.7	99.9	38.4	31.5
95°	32.3	118.3	383.3	163.9	104.6
97.5°	52.6	131.2	584.9	450.7	318.0
100°	67.5	139.2	648.3	654.3	533.9
102.5°	81.5	148.7	664.7	811.8	701.3
105°	106.6	163.9	657.1	1000.7	933.8
107.5°	130.4	182.8	619.7	1093.2	1113.1
110°	147.6	195.4	591.5	1116.2	1185.1



TEST NUMBER: P563422

CATALOG NUMBER: SQ4-PP3-075U-100D-835-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	163.3	209.6	563.4	1101.4	1206.2
115°	188.7	229.8	527.0	1049.4	1190.9
117.5°	213.0	250.8	503.9	976.5	1136.6
120°	227.8	264.1	493.8	921.9	1087.3
122.5°	241.1	277.4	486.7	874.0	1031.0
125°	260.1	296.4	478.1	808.8	947.5
127.5°	278.1	312.7	472.5	754.5	876.1
130°	287.5	322.8	469.3	722.2	833.1
132.5°	298.4	333.8	467.0	693.8	793.9
135°	313.9	348.3	464.4	654.1	740.2
137.5°	328.3	360.3	462.3	622.1	693.0
140°	339.3	368.9	461.5	600.8	664.9
142.5°	348.7	376.0	459.9	581.8	636.7
145°	362.8	387.6	457.6	557.3	600.3
147.5°	377.8	399.2	456.4	535.6	570.0
150°	387.2	406.3	455.6	523.7	550.5
152.5°	395.8	413.4	454.9	513.4	535.6
155°	410.7	424.0	454.7	500.9	515.3
157.5°	421.4	432.3	454.7	490.7	500.6
160°	429.2	437.8	454.7	485.1	492.8
162.5°	435.5	442.6	455.4	480.4	486.5
165°	443.9	449.6	456.6	475.3	478.1
167.5°	449.8	454.2	457.6	470.9	471.7
170°	453.7	456.6	457.6	469.3	469.3
172.5°	456.8	458.2	457.6	467.0	466.2
175°	459.5	460.5	457.6	463.4	462.5
177.5°	460.3	460.3	457.2	461.9	460.3
180°	459.5	459.5	459.5	459.5	459.5

(END OF REPORT)