

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: P562276

Luminaire Tested: **SQ4-PW1-075U-100D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562276  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PW1-075U-100D-92765-1D-UNV-STD-W-4 (5000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

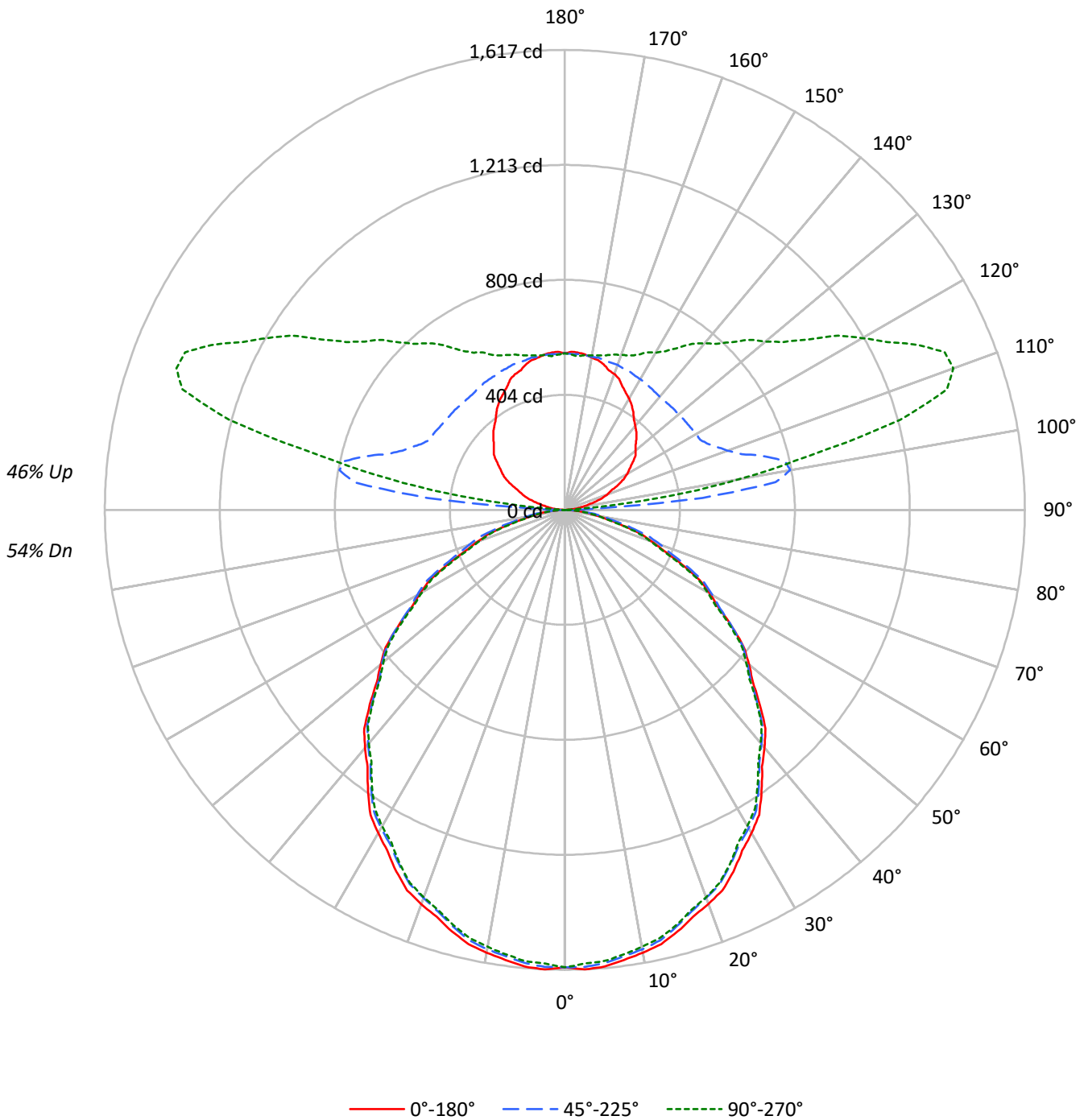
Lumens per Lamp: N/A  
Luminaire Lumens: 7509.8 lumens  
Efficiency: N/A  
Efficacy: 114.0 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 65.9  
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: P562276  
CATALOG NUMBER: SQ4-PW1-075U-100D-92765-1D-UNV-STD-W-4 (5000K)

### Luminous Intensity Polar Plot





TEST NUMBER: P562276

CATALOG NUMBER: SQ4-PW1-075U-100D-92765-1D-UNV-STD-W-4 (5000K)

**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	50	30	10	0	
RCR																						
0	108	108	108	108	100	100	100	100	86	86	86	72	72	72	60	60	60	54				
1	99	95	91	87	92	88	85	82	75	73	71	64	62	61	53	52	51	46				
2	90	83	77	71	83	77	72	67	66	62	59	56	53	51	47	45	43	39				
3	82	73	65	60	76	68	61	56	58	54	49	50	46	43	42	39	37	33				
4	75	64	57	50	70	60	53	48	52	47	42	44	40	37	37	34	32	28				
5	69	57	49	43	64	54	46	41	47	41	36	40	36	32	34	30	28	25				
6	64	52	43	38	59	48	41	36	42	36	32	36	32	28	31	27	24	22				
7	59	47	39	33	55	44	36	31	38	32	28	33	28	25	28	24	22	19				
8	55	42	35	29	51	40	33	28	35	29	25	30	26	22	26	22	19	17				
9	51	39	31	26	47	36	30	25	32	26	22	28	23	20	24	20	18	15				
10	48	35	28	23	44	33	27	22	29	24	20	26	21	18	22	19	16	14				

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

	0°	45°	90°
0°	14838	14838	14838
5°	14933	14816	14750
10°	14814	14695	14615
15°	14657	14495	14440
20°	14482	14259	14232
25°	14279	14020	13977
30°	13977	13766	13676
35°	13581	13390	13310
40°	13157	12952	12901
45°	12645	12479	12423
50°	12121	12020	11938
55°	11556	11556	11372
60°	10850	11059	10667
65°	9929	10424	9682
70°	8754	9593	8524
75°	7475	8587	7272
80°	5797	7226	5871
85°	3747	5547	4954



TEST NUMBER: P562276

CATALOG NUMBER: SQ4-PW1-075U-100D-92765-1D-UNV-STD-W-4 (5000K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.4	2.0
10°-20°	427.5	5.7
20°-30°	634.2	8.4
30°-40°	742.1	9.9
40°-50°	738.7	9.8
50°-60°	637.9	8.5
60°-70°	459.2	6.1
70°-80°	240.8	3.2
80°-90°	59.7	0.8
90°-100°	250.8	3.3
100°-110°	713.5	9.5
110°-120°	683.6	9.1
120°-130°	541.0	7.2
130°-140°	434.3	5.8
140°-150°	340.0	4.5
150°-160°	248.8	3.3
160°-170°	154.1	2.1
170°-180°	52.3	0.7
0°-30°	1213.2	16.2
0°-40°	1955.2	26.0
0°-60°	3331.9	44.4
0°-90°	4091.6	54.5
90°-120°	1647.8	21.9
90°-150°	2963.1	39.5
90°-180°	3418.0	45.5
0°-180°	7509.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1608	1608	1608	1608	1608	
5°	1612	1594	1600	1595	1593	153
15°	1534	1515	1518	1515	1512	433
25°	1403	1379	1377	1369	1373	645
35°	1206	1189	1189	1178	1182	754
45°	969	961	956	954	952	748
55°	718	717	718	708	707	641
65°	455	469	478	459	444	451
75°	210	229	241	225	204	225
85°	35	46	52	50	47	47
90°	0	0	0	0	0	2
95°	27	108	485	168	104	31
105°	111	168	727	1284	1221	117
115°	206	249	551	1168	1372	203
125°	291	322	526	873	1044	260
135°	356	385	520	738	834	274
145°	420	441	524	638	696	262
155°	479	490	537	577	600	221
165°	529	531	543	555	563	149
175°	554	551	549	546	542	53
180°	550	550	550	550	550	

TEST NUMBER: P562276

CATALOG NUMBER: SQ4-PW1-075U-100D-92765-1D-UNV-STD-W-4 (5000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1608.2	1608.2	1608.2	1608.2	1608.2
2.5°	1617.2	1603.9	1608.2	1604.6	1596.8
5°	1612.4	1594.4	1599.7	1595.3	1592.6
7.5°	1596.0	1579.4	1583.2	1578.7	1577.0
10°	1581.2	1564.6	1568.5	1562.8	1560.0
12.5°	1564.2	1546.5	1550.4	1544.6	1543.0
15°	1534.5	1515.1	1517.5	1514.6	1511.8
17.5°	1499.9	1480.2	1480.6	1476.1	1475.5
20°	1475.0	1454.2	1452.3	1446.7	1449.5
22.5°	1447.8	1425.9	1424.0	1416.1	1420.0
25°	1402.7	1379.2	1377.2	1368.8	1373.0
27.5°	1350.6	1327.3	1327.3	1315.5	1320.0
30°	1312.0	1289.9	1292.2	1278.2	1283.7
32.5°	1271.2	1251.3	1252.5	1238.5	1244.0
35°	1205.8	1189.1	1188.8	1177.5	1181.7
37.5°	1138.9	1124.2	1121.9	1115.4	1116.5
40°	1092.4	1079.9	1075.4	1071.2	1071.2
42.5°	1043.7	1032.3	1027.8	1024.7	1023.6
45°	969.1	960.8	956.4	953.5	952.1
47.5°	895.5	887.7	883.9	881.8	880.5
50°	844.5	838.9	837.4	833.1	831.7
52.5°	793.5	790.1	788.6	783.2	781.8
55°	718.4	717.0	718.4	708.4	707.0
57.5°	640.1	642.4	646.9	633.6	630.2
60°	588.0	593.5	599.3	583.6	578.1
62.5°	534.7	543.6	551.7	533.7	525.9
65°	454.8	468.7	477.5	458.7	443.5
67.5°	377.7	394.9	405.5	385.3	368.1
70°	324.5	343.9	355.6	335.4	316.0
72.5°	278.0	299.6	309.2	290.0	270.6
75°	209.7	229.1	240.9	224.8	204.0
77.5°	148.8	167.1	176.8	162.8	145.7
80°	109.1	128.5	136.0	124.4	110.5
82.5°	77.4	93.4	98.6	91.6	82.2
85°	35.4	46.5	52.4	49.5	46.8
87.5°	9.1	16.8	21.5	21.6	22.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.4	44.4	102.9	30.0	22.6
95°	27.2	108.0	485.4	168.0	103.6
97.5°	50.0	126.5	747.6	535.0	366.6
100°	65.9	137.5	804.5	814.9	627.7
102.5°	83.5	149.4	792.0	1043.1	879.6
105°	110.9	168.2	727.1	1284.3	1220.9
107.5°	138.7	190.1	651.3	1352.3	1408.8
110°	158.0	206.0	607.8	1326.3	1453.1

TEST NUMBER: P562276

CATALOG NUMBER: SQ4-PW1-075U-100D-92765-1D-UNV-STD-W-4 (5000K)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	176.4	222.0	578.5	1264.7	1445.6
115°	206.1	249.1	551.3	1168.0	1371.5
117.5°	232.2	272.6	535.2	1062.2	1277.8
120°	253.2	286.9	533.5	1001.7	1208.3
122.5°	269.9	303.7	529.4	948.6	1140.5
125°	290.8	322.5	526.2	873.2	1044.1
127.5°	313.6	343.3	524.5	828.2	969.0
130°	325.4	355.0	522.0	796.8	919.6
132.5°	337.9	366.8	522.0	772.3	885.3
135°	355.7	385.4	519.9	737.6	833.8
137.5°	372.4	401.3	519.7	708.3	791.3
140°	385.0	414.7	518.9	683.9	763.7
142.5°	399.2	424.0	521.4	664.5	736.1
145°	419.5	441.0	524.1	638.4	695.7
147.5°	436.9	457.7	528.7	612.1	661.6
150°	451.9	466.3	530.4	603.4	638.2
152.5°	463.7	478.8	532.1	591.6	623.9
155°	479.1	490.4	536.7	577.0	600.5
157.5°	498.4	505.1	537.7	570.3	587.1
160°	508.4	513.6	541.9	565.3	579.6
162.5°	514.3	520.2	542.8	561.0	572.0
165°	529.4	531.4	543.0	554.7	562.8
167.5°	539.6	537.8	547.8	553.1	556.4
170°	543.0	541.9	546.1	547.2	551.3
172.5°	550.5	547.0	548.6	545.5	548.8
175°	554.5	551.4	549.2	546.0	541.9
177.5°	556.1	551.2	548.6	545.3	546.1
180°	550.3	550.3	550.3	550.3	550.3

(END OF REPORT)