

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: P562271

Luminaire Tested: **SQ4-PW1-075U-100D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562271  
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 (2700K)  
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 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

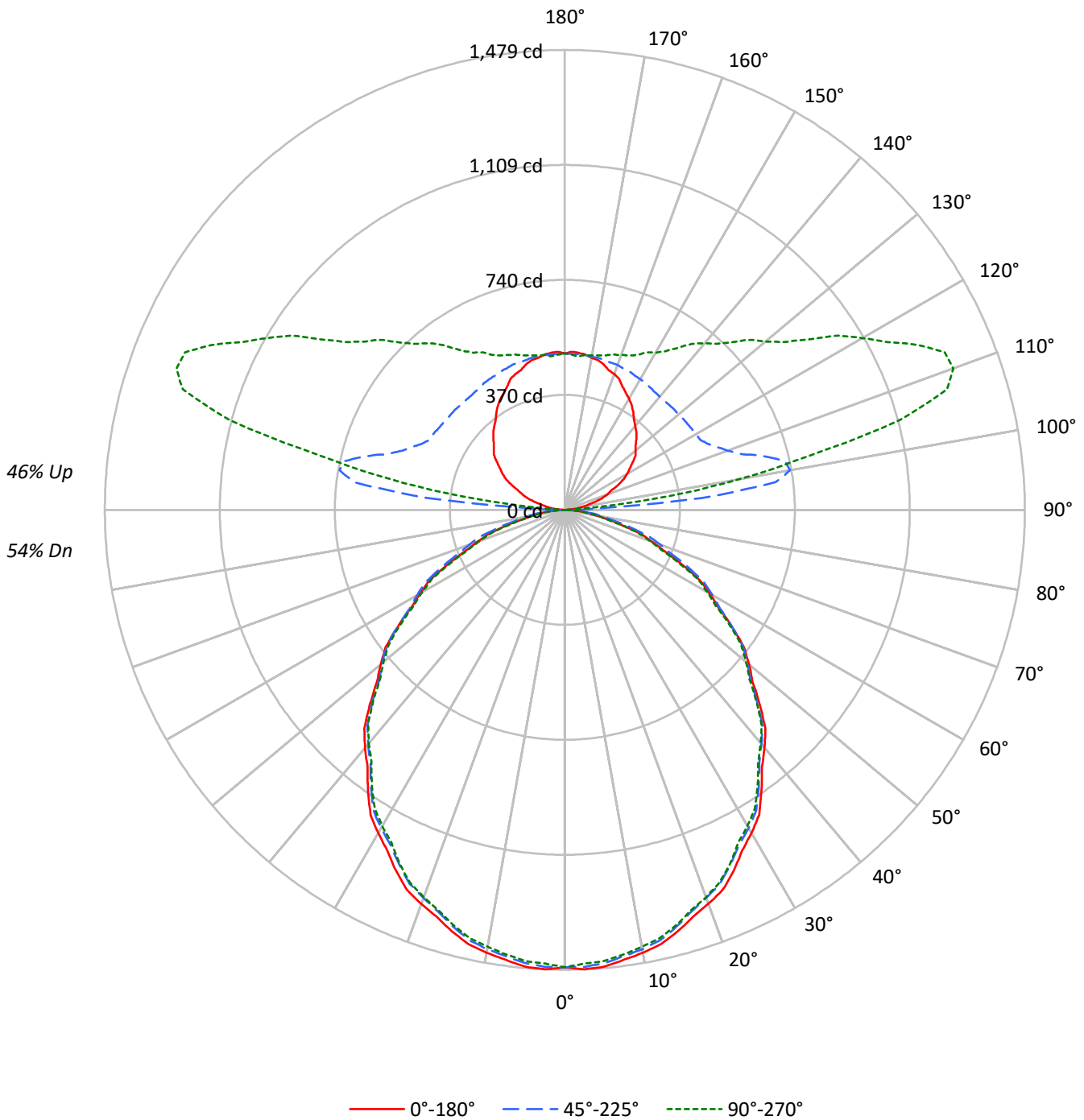
Lumens per Lamp: N/A  
Luminaire Lumens: 6867.8 lumens  
Efficiency: N/A  
Efficacy: 104.2 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

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: P562271  
CATALOG NUMBER: SQ4-PW1-075U-100D-92765-1D-UNV-STD-W-4 (2700K)

### Luminous Intensity Polar Plot





TEST NUMBER: P562271

CATALOG NUMBER: SQ4-PW1-075U-100D-92765-1D-UNV-STD-W-4 (2700K)

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20				
RC	80					70					50					30				
RW	70	50	30	10	70	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°	13569	13569	13569
5°	13657	13549	13488
10°	13548	13438	13365
15°	13404	13256	13206
20°	13244	13041	13015
25°	13059	12822	12782
30°	12783	12589	12507
35°	12420	12244	12172
40°	12032	11845	11798
45°	11564	11412	11362
50°	11085	10992	10917
55°	10568	10568	10401
60°	9922	10114	9756
65°	9080	9534	8855
70°	8004	8772	7796
75°	6837	7853	6652
80°	5303	6610	5372
85°	3430	5071	4531



TEST NUMBER: P562271

CATALOG NUMBER: SQ4-PW1-075U-100D-92765-1D-UNV-STD-W-4 (2700K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.5	2.0
10°-20°	391.0	5.7
20°-30°	580.0	8.4
30°-40°	678.6	9.9
40°-50°	675.6	9.8
50°-60°	583.4	8.5
60°-70°	419.9	6.1
70°-80°	220.2	3.2
80°-90°	54.6	0.8
90°-100°	229.3	3.3
100°-110°	652.5	9.5
110°-120°	625.2	9.1
120°-130°	494.8	7.2
130°-140°	397.1	5.8
140°-150°	310.9	4.5
150°-160°	227.5	3.3
160°-170°	140.9	2.1
170°-180°	47.8	0.7
0°-30°	1109.5	16.2
0°-40°	1788.1	26.0
0°-60°	3047.1	44.4
0°-90°	3741.8	54.5
90°-120°	1507.0	21.9
90°-150°	2709.8	39.5
90°-180°	3126.0	45.5
0°-180°	6867.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1471	1471	1471	1471	1471	
5°	1475	1458	1463	1459	1456	140
15°	1403	1386	1388	1385	1383	396
25°	1283	1261	1260	1252	1256	590
35°	1103	1088	1087	1077	1081	689
45°	886	879	875	872	871	684
55°	657	656	657	648	647	586
65°	416	429	437	420	406	412
75°	192	210	220	206	187	206
85°	32	42	48	45	43	43
90°	0	0	0	0	0	2
95°	25	99	444	154	95	28
105°	101	154	665	1174	1116	107
115°	188	228	504	1068	1254	186
125°	266	295	481	799	955	238
135°	325	352	476	675	762	251
145°	384	403	479	584	636	240
155°	438	448	491	528	549	203
165°	484	486	496	507	515	136
175°	507	504	502	499	496	48
180°	503	503	503	503	503	

TEST NUMBER: P562271

CATALOG NUMBER: SQ4-PW1-075U-100D-92765-1D-UNV-STD-W-4 (2700K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1470.7	1470.7	1470.7	1470.7	1470.7
2.5°	1479.0	1466.8	1470.7	1467.4	1460.3
5°	1474.6	1458.1	1462.9	1459.0	1456.4
7.5°	1459.5	1444.3	1447.9	1443.7	1442.2
10°	1446.1	1430.9	1434.4	1429.2	1426.6
12.5°	1430.5	1414.3	1417.8	1412.6	1411.1
15°	1403.3	1385.6	1387.8	1385.1	1382.6
17.5°	1371.7	1353.7	1354.1	1349.9	1349.4
20°	1348.9	1329.9	1328.2	1323.0	1325.6
22.5°	1324.0	1304.0	1302.2	1295.1	1298.6
25°	1282.8	1261.3	1259.5	1251.8	1255.6
27.5°	1235.1	1213.8	1213.9	1203.1	1207.1
30°	1199.9	1179.6	1181.7	1168.9	1174.0
32.5°	1162.6	1144.3	1145.5	1132.6	1137.7
35°	1102.7	1087.5	1087.1	1076.9	1080.7
37.5°	1041.5	1028.1	1026.0	1020.0	1021.1
40°	999.0	987.6	983.5	979.6	979.6
42.5°	954.5	944.1	939.9	937.1	936.1
45°	886.3	878.7	874.6	872.0	870.8
47.5°	818.9	811.8	808.3	806.5	805.2
50°	772.3	767.2	765.8	761.9	760.6
52.5°	725.6	722.6	721.2	716.3	715.0
55°	657.0	655.7	657.0	647.9	646.6
57.5°	585.4	587.5	591.6	579.4	576.4
60°	537.7	542.8	548.1	533.7	528.7
62.5°	489.0	497.1	504.6	488.1	481.0
65°	415.9	428.6	436.7	419.5	405.6
67.5°	345.5	361.2	370.8	352.3	336.6
70°	296.7	314.5	325.2	306.7	289.0
72.5°	254.2	274.0	282.7	265.2	247.5
75°	191.8	209.5	220.3	205.6	186.6
77.5°	136.1	152.8	161.7	148.9	133.2
80°	99.8	117.5	124.4	113.7	101.1
82.5°	70.7	85.4	90.2	83.8	75.2
85°	32.4	42.5	47.9	45.3	42.8
87.5°	8.3	15.4	19.7	19.7	20.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	7.7	40.6	94.1	27.4	20.7
95°	24.9	98.8	443.9	153.7	94.7
97.5°	45.7	115.7	683.7	489.2	335.2
100°	60.3	125.8	735.7	745.2	574.0
102.5°	76.3	136.6	724.3	953.9	804.4
105°	101.4	153.8	664.9	1174.5	1116.5
107.5°	126.9	173.8	595.7	1236.7	1288.3
110°	144.5	188.4	555.9	1212.9	1328.9

TEST NUMBER: P562271

CATALOG NUMBER: SQ4-PW1-075U-100D-92765-1D-UNV-STD-W-4 (2700K)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	<i>161.3</i>	203.0	529.1	1156.6	1322.0
115°	<i>188.5</i>	227.8	504.2	1068.1	1254.3
117.5°	<i>212.4</i>	249.3	489.5	971.4	1168.6
120°	<i>231.5</i>	262.4	487.9	916.1	1105.0
122.5°	<i>246.8</i>	277.7	484.1	867.5	1043.0
125°	<i>266.0</i>	295.0	481.2	798.6	954.8
127.5°	<i>286.8</i>	314.0	479.7	757.4	886.1
130°	<i>297.5</i>	324.7	477.4	728.7	841.0
132.5°	<i>309.0</i>	335.4	477.4	706.3	809.6
135°	<i>325.3</i>	352.4	475.5	674.6	762.5
137.5°	<i>340.6</i>	367.0	475.3	647.7	723.7
140°	<i>352.1</i>	379.2	474.5	625.5	698.4
142.5°	<i>365.1</i>	387.7	476.8	607.7	673.2
145°	<i>383.7</i>	403.3	479.3	583.8	636.2
147.5°	<i>399.5</i>	418.6	483.5	559.8	605.0
150°	<i>413.3</i>	426.4	485.1	551.8	583.6
152.5°	<i>424.0</i>	437.9	486.6	541.0	570.6
155°	<i>438.2</i>	448.5	490.8	527.7	549.2
157.5°	<i>455.8</i>	462.0	491.8	521.6	536.9
160°	<i>465.0</i>	469.7	495.6	516.9	530.0
162.5°	<i>470.3</i>	475.8	496.4	513.0	523.1
165°	<i>484.1</i>	486.0	496.5	507.2	514.7
167.5°	<i>493.5</i>	491.8	500.9	505.8	508.8
170°	<i>496.5</i>	495.6	499.4	500.5	504.2
172.5°	<i>503.4</i>	500.3	501.7	498.9	501.9
175°	<i>507.1</i>	504.3	502.3	499.3	495.6
177.5°	<i>508.6</i>	504.1	501.7	498.7	499.4
180°	<i>503.2</i>	503.2	503.2	503.2	503.2

(END OF REPORT)