

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: P561913

Luminaire Tested: **SQ4-PR1-075U-100D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561913  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PR1-075U-100D-92765-1D-UNV-STD-W-4 (5700K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

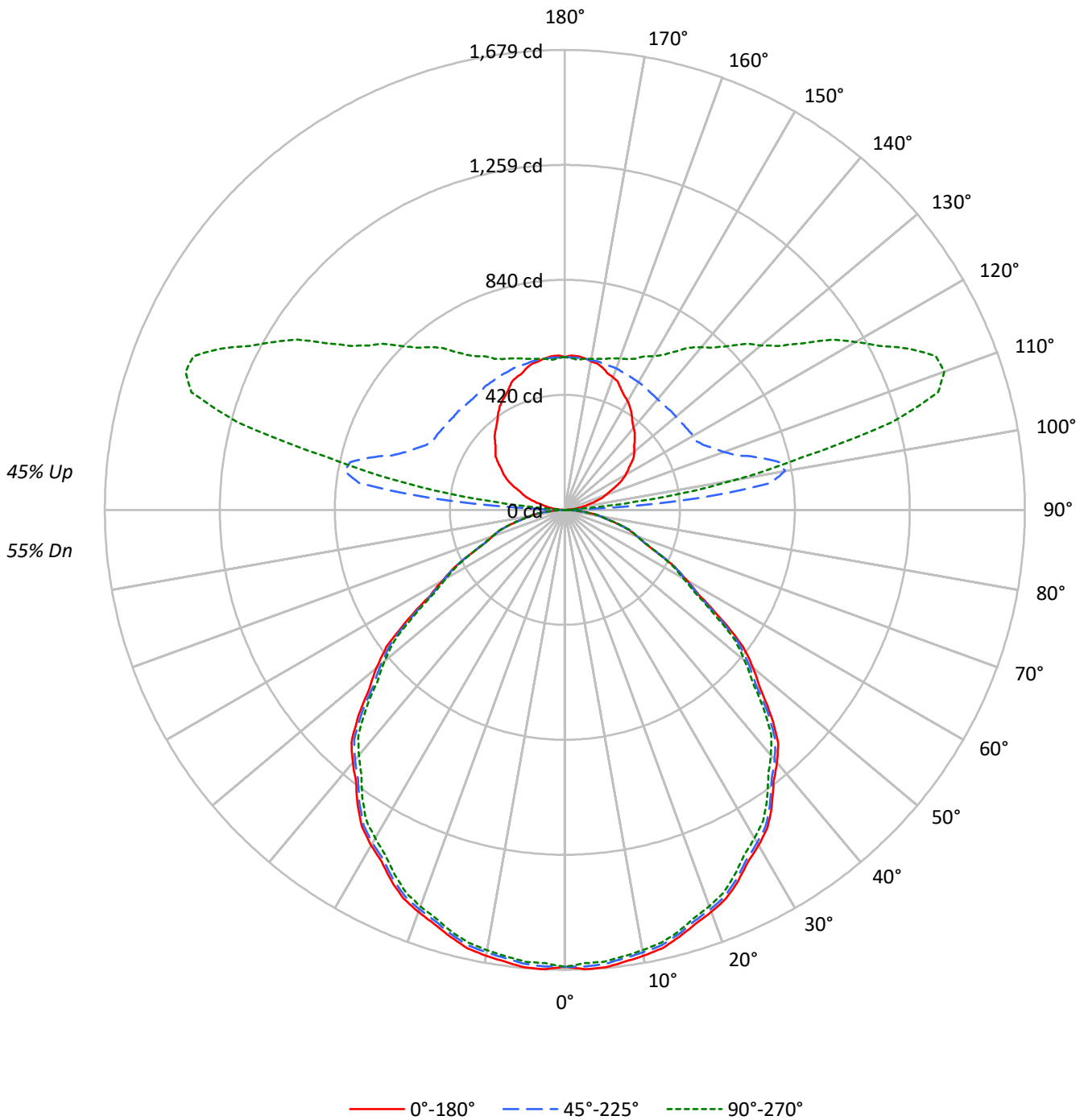
Lumens per Lamp: N/A  
Luminaire Lumens: 7637.8 lumens  
Efficiency: N/A  
Efficacy: 115.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

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



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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	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60	55
1	99	95	91	88	92	88	85	82	76	73	71	64	63	61	54	53	52	47
2	91	83	77	72	84	78	72	68	67	63	59	57	54	52	48	46	44	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	49	53	47	43	45	41	38	38	35	33	29
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	37	43	37	33	37	32	29	31	28	25	23
7	60	47	39	34	55	44	37	32	39	33	29	34	29	26	29	25	23	20
8	55	43	35	30	51	40	33	29	35	30	26	31	26	23	26	23	20	18
9	51	39	32	27	48	37	30	26	33	27	23	28	24	21	24	21	18	16
10	48	36	29	24	45	34	27	23	30	25	21	26	22	19	23	19	17	15

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

	0°	45°	90°
0°	15393	15393	15393
5°	15532	15412	15332
10°	15482	15375	15294
15°	15414	15319	15236
20°	15337	15238	15125
25°	15229	15126	14951
30°	15065	14958	14743
35°	14843	14713	14502
40°	14505	14348	14089
45°	13913	13669	13388
50°	12871	12562	12314
55°	11234	10980	10748
60°	9466	9387	9202
65°	8189	8219	8156
70°	7521	7559	7559
75°	7222	7222	7276
80°	6796	6870	6796
85°	5473	6087	6087



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	157.8	2.1
10°-20°	451.4	5.9
20°-30°	680.9	8.9
30°-40°	811.3	10.6
40°-50°	799.8	10.5
50°-60°	611.3	8.0
60°-70°	378.3	5.0
70°-80°	214.8	2.8
80°-90°	65.3	0.9
90°-100°	254.3	3.3
100°-110°	723.6	9.5
110°-120°	693.3	9.1
120°-130°	548.7	7.2
130°-140°	440.5	5.8
140°-150°	344.8	4.5
150°-160°	252.3	3.3
160°-170°	156.3	2.0
170°-180°	53.0	0.7
0°-30°	1290.0	16.9
0°-40°	2101.3	27.5
0°-60°	3512.4	46.0
0°-90°	4170.9	54.6
90°-120°	1671.3	21.9
90°-150°	3005.3	39.3
90°-180°	3467.0	45.4
0°-180°	7637.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1668	1668	1668	1668	1668	
5°	1677	1659	1664	1658	1656	159
15°	1614	1597	1604	1598	1595	455
25°	1496	1478	1486	1470	1469	688
35°	1318	1302	1306	1289	1288	822
45°	1066	1052	1048	1029	1026	817
55°	698	687	683	671	668	626
65°	375	372	376	374	374	380
75°	203	203	203	204	204	214
85°	52	54	58	58	58	60
90°	0	0	0	0	0	3
95°	28	110	492	170	105	32
105°	112	171	737	1303	1238	119
115°	209	253	559	1185	1391	206
125°	295	327	534	886	1059	264
135°	361	391	527	748	846	278
145°	426	447	532	648	706	266
155°	486	497	544	585	609	225
165°	537	539	551	563	571	151
175°	562	559	557	554	550	53
180°	558	558	558	558	558	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1668.4	1668.4	1668.4	1668.4	1668.4
2.5°	1678.8	1664.2	1668.4	1664.8	1656.9
5°	1677.1	1658.8	1664.1	1658.3	1655.5
7.5°	1664.1	1646.1	1651.5	1645.7	1644.0
10°	1652.6	1635.8	1641.1	1635.3	1632.5
12.5°	1640.0	1622.0	1628.5	1621.5	1618.7
15°	1613.8	1597.0	1603.8	1597.9	1595.1
17.5°	1585.1	1567.1	1573.9	1567.2	1563.5
20°	1562.1	1545.2	1552.0	1541.9	1540.5
22.5°	1536.8	1519.9	1526.7	1513.2	1512.9
25°	1496.0	1477.7	1485.9	1470.1	1468.7
27.5°	1447.4	1430.5	1437.3	1421.2	1419.5
30°	1414.1	1397.2	1404.0	1386.7	1383.9
32.5°	1376.1	1360.4	1366.1	1348.8	1347.1
35°	1317.8	1302.3	1306.3	1289.0	1287.6
37.5°	1251.4	1237.3	1239.6	1220.6	1219.2
40°	1204.3	1190.2	1191.3	1171.2	1169.8
42.5°	1152.5	1138.5	1137.3	1117.1	1115.7
45°	1066.3	1052.2	1047.6	1028.9	1026.1
47.5°	968.0	954.0	945.3	930.0	928.1
50°	896.7	882.7	875.2	862.1	857.9
52.5°	819.7	805.6	799.3	787.4	783.2
55°	698.4	687.2	682.6	671.0	668.2
57.5°	583.2	575.6	574.2	563.0	561.9
60°	513.0	508.8	508.7	498.7	498.7
62.5°	453.2	450.2	452.4	445.8	444.6
65°	375.1	372.3	376.5	373.6	373.6
67.5°	313.3	313.3	315.9	314.7	314.7
70°	278.8	278.8	280.2	280.2	280.2
72.5°	247.7	246.6	250.3	250.3	249.2
75°	202.6	202.6	202.6	204.1	204.1
77.5°	157.8	158.1	159.2	158.9	157.8
80°	127.9	129.3	129.3	127.9	127.9
82.5°	98.0	99.4	99.4	99.1	98.0
85°	51.7	54.5	57.5	57.5	57.5
87.5°	14.9	19.4	23.0	23.0	21.8
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.5	45.0	104.4	30.4	22.9
95°	27.6	109.5	492.3	170.4	105.0
97.5°	50.7	128.3	758.2	542.6	371.8
100°	66.8	139.5	816.0	826.5	636.6
102.5°	84.7	151.5	803.2	1057.9	892.1
105°	112.5	170.6	737.4	1302.6	1238.3
107.5°	140.7	192.8	660.6	1371.6	1428.8
110°	160.2	209.0	616.5	1345.2	1473.8

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	178.9	225.2	586.8	1282.8	1466.2
115°	209.0	252.6	559.2	1184.6	1391.1
117.5°	235.6	276.4	542.8	1077.3	1296.0
120°	256.8	291.0	541.1	1016.0	1225.5
122.5°	273.8	308.0	536.9	962.1	1156.8
125°	295.0	327.1	533.7	885.7	1058.9
127.5°	318.1	348.2	532.0	840.0	982.8
130°	330.0	360.1	529.5	808.2	932.7
132.5°	342.7	372.0	529.5	783.3	897.9
135°	360.8	390.9	527.4	748.1	845.7
137.5°	377.7	407.0	527.1	718.4	802.6
140°	390.5	420.6	526.3	693.7	774.6
142.5°	404.9	430.0	528.8	673.9	746.6
145°	425.5	447.3	531.6	647.5	705.6
147.5°	443.1	464.3	536.3	620.8	671.0
150°	458.4	472.9	538.0	612.0	647.3
152.5°	470.3	485.6	539.7	600.0	632.8
155°	486.0	497.4	544.3	585.2	609.1
157.5°	505.5	512.3	545.4	578.5	595.5
160°	515.7	520.9	549.6	573.3	587.8
162.5°	521.6	527.6	550.5	569.0	580.2
165°	536.9	539.0	550.7	562.6	570.9
167.5°	547.3	545.4	555.6	561.0	564.3
170°	550.7	549.7	553.9	555.0	559.2
172.5°	558.3	554.8	556.4	553.3	556.6
175°	562.4	559.3	557.1	553.8	549.6
177.5°	564.1	559.1	556.4	553.0	553.9
180°	558.1	558.1	558.1	558.1	558.1

(END OF REPORT)