

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: P561909

Luminaire Tested: **SQ4-PR1-075U-100D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561909  
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 (3500K)  
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 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

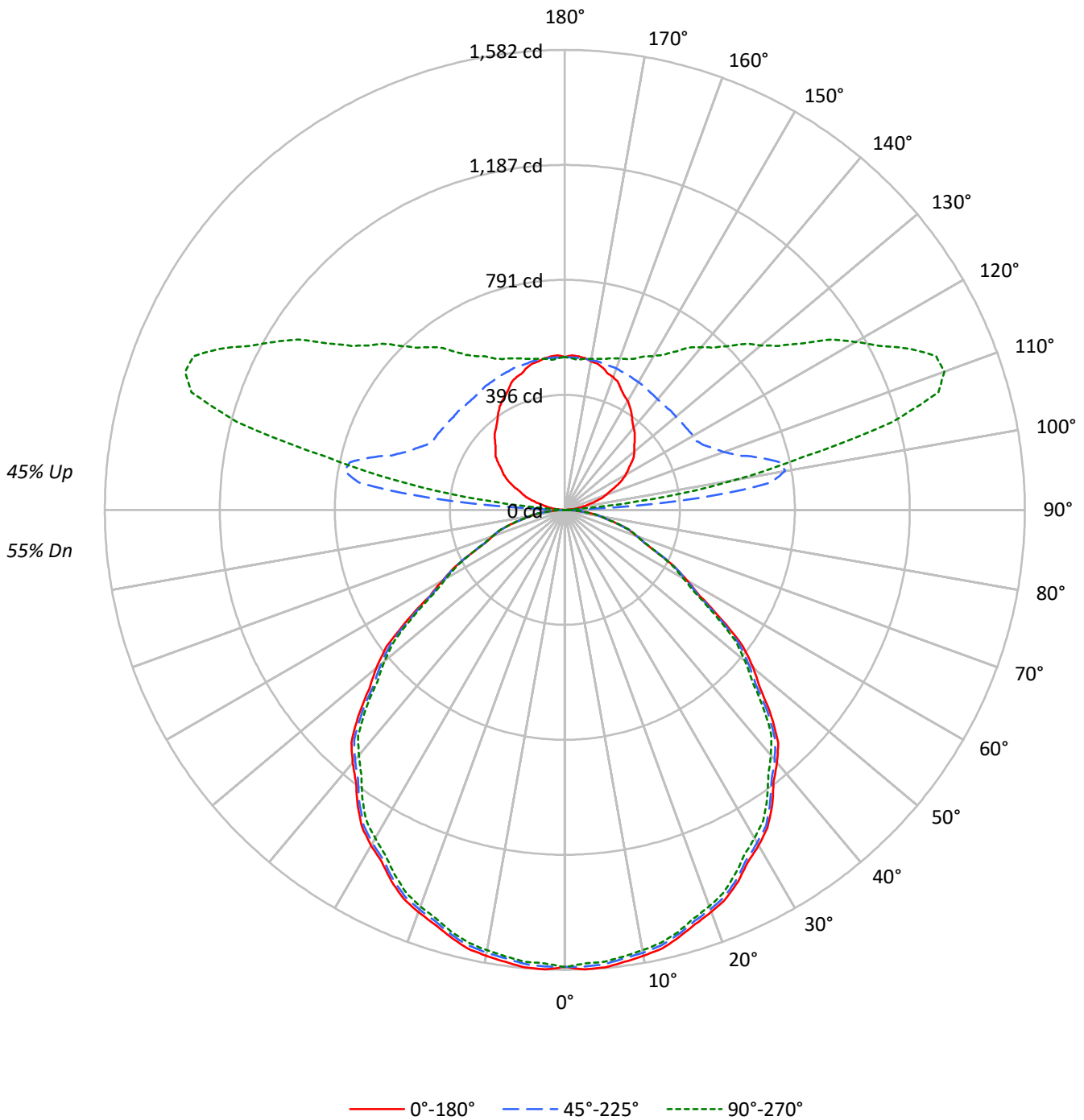
Lumens per Lamp: N/A  
Luminaire Lumens: 7198.2 lumens  
Efficiency: N/A  
Efficacy: 108.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 66.1  
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°	14507	14507	14507
5°	14638	14525	14450
10°	14591	14490	14413
15°	14527	14437	14359
20°	14455	14361	14255
25°	14353	14256	14090
30°	14198	14097	13894
35°	13988	13866	13668
40°	13669	13523	13277
45°	13112	12882	12617
50°	12130	11839	11605
55°	10587	10348	10131
60°	8922	8846	8673
65°	7717	7746	7687
70°	7086	7124	7124
75°	6809	6809	6855
80°	6402	6477	6402
85°	5166	5738	5738



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.7	2.1
10°-20°	425.4	5.9
20°-30°	641.7	8.9
30°-40°	764.6	10.6
40°-50°	753.8	10.5
50°-60°	576.1	8.0
60°-70°	356.5	5.0
70°-80°	202.5	2.8
80°-90°	61.6	0.9
90°-100°	239.7	3.3
100°-110°	682.0	9.5
110°-120°	653.4	9.1
120°-130°	517.2	7.2
130°-140°	415.1	5.8
140°-150°	325.0	4.5
150°-160°	237.8	3.3
160°-170°	147.3	2.0
170°-180°	50.0	0.7
0°-30°	1215.8	16.9
0°-40°	1980.4	27.5
0°-60°	3310.2	46.0
0°-90°	3930.8	54.6
90°-120°	1575.1	21.9
90°-150°	2832.3	39.3
90°-180°	3267.0	45.4
0°-180°	7198.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1572	1572	1572	1572	1572	
5°	1580	1563	1568	1563	1560	150
15°	1521	1505	1512	1506	1503	429
25°	1410	1393	1400	1386	1384	649
35°	1242	1227	1231	1215	1214	775
45°	1005	992	987	970	967	770
55°	658	648	643	632	630	590
65°	354	351	355	352	352	358
75°	191	191	191	192	192	202
85°	49	51	54	54	54	57
90°	0	0	0	0	0	3
95°	26	103	464	161	99	30
105°	106	161	695	1228	1167	112
115°	197	238	527	1116	1311	194
125°	278	308	503	835	998	249
135°	340	368	497	705	797	262
145°	401	422	501	610	665	250
155°	458	469	513	552	574	212
165°	506	508	519	530	538	142
175°	530	527	525	522	518	50
180°	526	526	526	526	526	

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CATALOG NUMBER: SQ4-PR1-075U-100D-92765-1D-UNV-STD-W-4 (3500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1572.4	1572.4	1572.4	1572.4	1572.4
2.5°	1582.2	1568.4	1572.4	1569.0	1561.6
5°	1580.5	1563.3	1568.3	1562.9	1560.2
7.5°	1568.3	1551.4	1556.4	1551.0	1549.4
10°	1557.5	1541.6	1546.7	1541.2	1538.5
12.5°	1545.6	1528.6	1534.7	1528.2	1525.5
15°	1520.9	1505.0	1511.5	1506.0	1503.3
17.5°	1493.8	1476.9	1483.3	1477.0	1473.5
20°	1472.2	1456.3	1462.7	1453.2	1451.9
22.5°	1448.3	1432.5	1438.9	1426.1	1425.9
25°	1409.9	1392.7	1400.4	1385.5	1384.1
27.5°	1364.1	1348.2	1354.6	1339.4	1337.8
30°	1332.7	1316.8	1323.2	1306.9	1304.2
32.5°	1296.9	1282.1	1287.4	1271.2	1269.6
35°	1241.9	1227.4	1231.1	1214.8	1213.5
37.5°	1179.4	1166.1	1168.3	1150.4	1149.0
40°	1134.9	1121.7	1122.8	1103.8	1102.4
42.5°	1086.2	1072.9	1071.8	1052.8	1051.5
45°	1004.9	991.7	987.3	969.7	967.0
47.5°	912.3	899.0	890.9	876.5	874.6
50°	845.1	831.9	824.8	812.5	808.5
52.5°	772.5	759.3	753.3	742.1	738.1
55°	658.2	647.6	643.3	632.4	629.8
57.5°	549.6	542.4	541.2	530.6	529.6
60°	483.5	479.5	479.4	470.0	470.0
62.5°	427.2	424.2	426.3	420.1	419.0
65°	353.5	350.8	354.8	352.1	352.1
67.5°	295.2	295.2	297.7	296.6	296.6
70°	262.7	262.7	264.1	264.1	264.1
72.5°	233.5	232.4	235.9	235.9	234.8
75°	191.0	191.0	191.0	192.3	192.3
77.5°	148.7	149.0	150.1	149.8	148.7
80°	120.5	121.9	121.9	120.5	120.5
82.5°	92.4	93.7	93.7	93.4	92.4
85°	48.8	51.4	54.2	54.2	54.2
87.5°	14.1	18.3	21.7	21.6	20.6
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.0	42.4	98.4	28.6	21.6
95°	26.0	103.2	464.0	160.6	99.0
97.5°	47.8	120.9	714.6	511.3	350.4
100°	63.0	131.4	769.0	778.9	600.0
102.5°	79.8	142.8	757.0	997.0	840.8
105°	106.0	160.8	695.0	1227.6	1167.0
107.5°	132.6	181.7	622.6	1292.6	1346.6
110°	151.0	197.0	581.0	1267.8	1389.0

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	168.6	212.2	553.0	1208.9	1381.8
115°	197.0	238.1	527.0	1116.4	1311.0
117.5°	222.0	260.5	511.6	1015.3	1221.4
120°	242.0	274.3	510.0	957.5	1155.0
122.5°	258.0	290.3	506.0	906.8	1090.2
125°	278.0	308.3	503.0	834.7	998.0
127.5°	299.8	328.2	501.4	791.7	926.2
130°	311.0	339.4	499.0	761.7	879.0
132.5°	323.0	350.6	499.0	738.3	846.2
135°	340.0	368.4	497.0	705.1	797.0
137.5°	356.0	383.6	496.8	677.0	756.4
140°	368.0	396.4	496.0	653.7	730.0
142.5°	381.6	405.3	498.4	635.2	703.6
145°	401.0	421.5	501.0	610.2	665.0
147.5°	417.6	437.5	505.4	585.1	632.4
150°	432.0	445.7	507.0	576.8	610.0
152.5°	443.2	457.7	508.6	565.5	596.4
155°	458.0	468.8	513.0	551.5	574.0
157.5°	476.4	482.9	514.0	545.2	561.2
160°	486.0	490.9	518.0	540.3	554.0
162.5°	491.6	497.3	518.8	536.2	546.8
165°	506.0	508.0	519.0	530.2	538.0
167.5°	515.8	514.0	523.6	528.7	531.8
170°	519.0	518.0	522.0	523.1	527.0
172.5°	526.2	522.9	524.4	521.5	524.6
175°	530.0	527.1	525.0	521.9	518.0
177.5°	531.6	526.9	524.4	521.2	522.0
180°	526.0	526.0	526.0	526.0	526.0

(END OF REPORT)