

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: P561810

Luminaire Tested: **SQ4-PR1-025U-100D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561810  
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-PR1-025U-100D-92765-1D-UNV-STD-W-4 (6500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

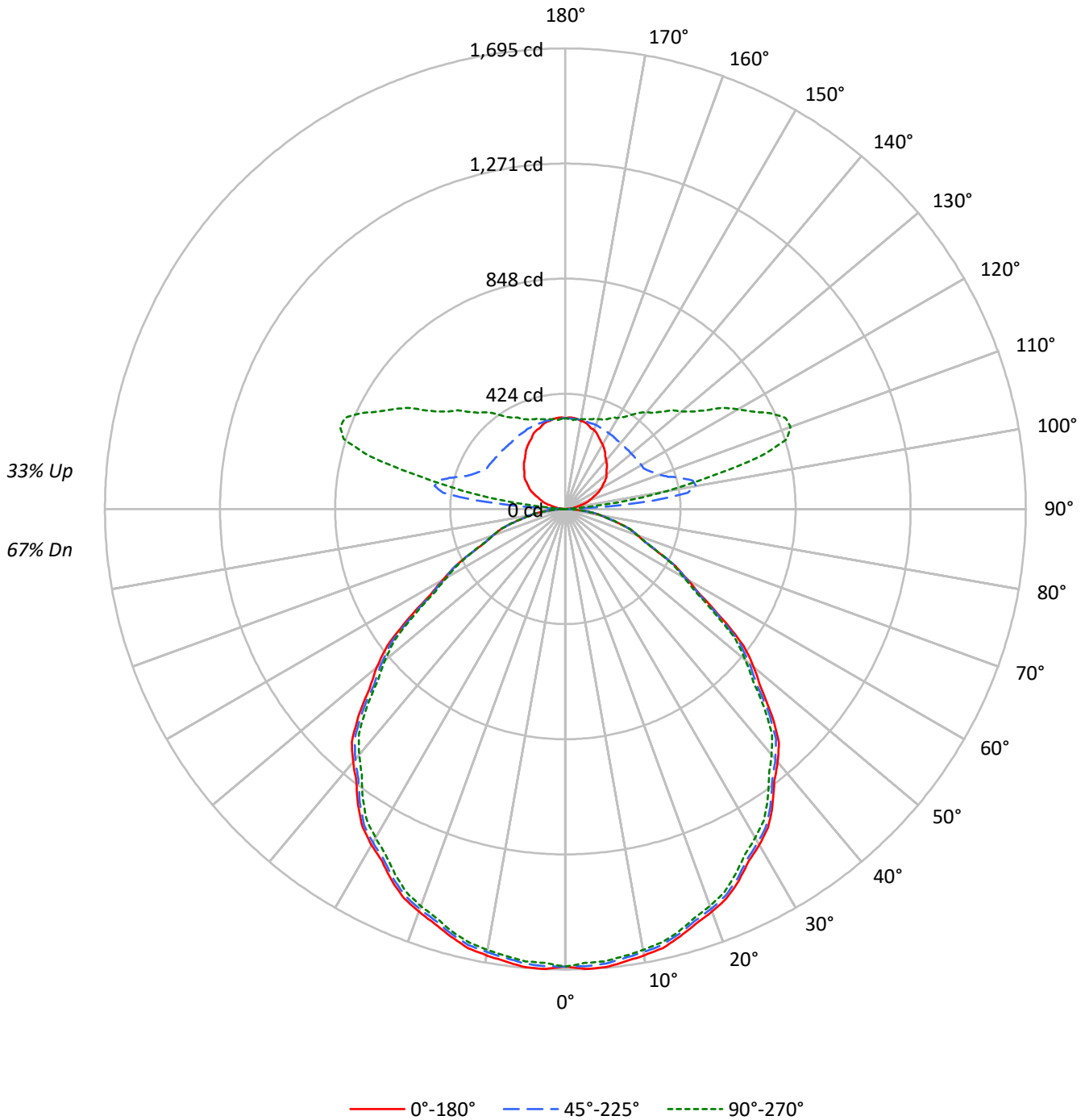
Lumens per Lamp: N/A  
Luminaire Lumens: 6285.0 lumens  
Efficiency: N/A  
Efficacy: 112.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 56  
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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	67
1	102	98	94	90	96	92	89	86	82	79	77	73	71	69	64	63	61	57
2	93	86	80	75	88	81	76	71	72	68	65	64	61	58	57	54	52	49
3	85	76	68	63	80	72	65	60	64	59	55	57	53	50	51	48	45	42
4	78	67	59	53	74	64	57	51	57	52	47	51	47	43	46	42	39	36
5	72	60	52	46	68	57	50	44	51	45	41	46	41	37	41	37	34	31
6	66	54	46	40	63	52	44	39	47	40	36	42	37	33	37	33	30	28
7	62	49	41	35	58	47	39	34	42	36	32	38	33	29	34	30	27	25
8	57	45	37	31	54	43	35	30	39	33	28	35	30	26	31	27	24	22
9	53	41	33	28	50	39	32	27	36	30	25	32	27	24	29	25	22	20
10	50	38	30	25	47	36	29	25	33	27	23	30	25	21	27	23	20	18

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

	0°	45°	90°
0°	15539	15539	15539
5°	15680	15558	15478
10°	15630	15521	15439
15°	15561	15464	15381
20°	15483	15382	15268
25°	15374	15270	15093
30°	15208	15099	14883
35°	14983	14853	14640
40°	14642	14484	14223
45°	14045	13799	13515
50°	12993	12681	12431
55°	11340	11084	10851
60°	9557	9475	9289
65°	8265	8298	8235
70°	7591	7631	7631
75°	7290	7290	7343
80°	6859	6939	6859
85°	5526	6140	6140



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.3	2.5
10°-20°	455.7	7.3
20°-30°	687.3	10.9
30°-40°	819.0	13.0
40°-50°	807.4	12.8
50°-60°	617.1	9.8
60°-70°	381.9	6.1
70°-80°	216.9	3.5
80°-90°	66.0	1.0
90°-100°	152.2	2.4
100°-110°	433.0	6.9
110°-120°	414.9	6.6
120°-130°	328.4	5.2
130°-140°	263.6	4.2
140°-150°	206.3	3.3
150°-160°	151.0	2.4
160°-170°	93.5	1.5
170°-180°	31.7	0.5
0°-30°	1302.3	20.7
0°-40°	2121.2	33.8
0°-60°	3545.7	56.4
0°-90°	4210.4	67.0
90°-120°	1000.1	15.9
90°-150°	1798.3	28.6
90°-180°	2075.0	33.0
0°-180°	6285.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1684	1684	1684	1684	1684	
5°	1693	1674	1680	1674	1671	161
15°	1629	1612	1619	1613	1610	460
25°	1510	1492	1500	1484	1483	695
35°	1330	1315	1319	1301	1300	830
45°	1076	1062	1058	1039	1036	825
55°	705	694	689	677	675	632
65°	379	376	380	377	377	384
75°	204	204	204	206	206	216
85°	52	55	58	58	58	61
90°	0	0	0	0	0	3
95°	16	66	295	102	63	19
105°	67	102	441	779	741	71
115°	125	151	335	709	832	123
125°	176	196	319	530	634	158
135°	216	234	316	448	506	167
145°	255	268	318	388	422	159
155°	291	298	326	350	364	134
165°	321	322	330	337	342	90
175°	336	335	333	331	329	32
180°	334	334	334	334	334	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1684.2	1684.2	1684.2	1684.2	1684.2
2.5°	1694.7	1679.9	1684.2	1680.6	1672.6
5°	1693.0	1674.5	1679.9	1674.0	1671.2
7.5°	1679.9	1661.7	1667.1	1661.3	1659.6
10°	1668.3	1651.3	1656.7	1650.8	1648.0
12.5°	1655.5	1637.4	1643.9	1636.9	1634.1
15°	1629.1	1612.1	1619.0	1613.1	1610.3
17.5°	1600.1	1582.0	1588.8	1582.0	1578.3
20°	1576.9	1559.9	1566.7	1556.6	1555.1
22.5°	1551.4	1534.3	1541.2	1527.6	1527.3
25°	1510.2	1491.7	1500.0	1484.0	1482.6
27.5°	1461.1	1444.1	1451.0	1434.7	1433.0
30°	1427.5	1410.5	1417.3	1399.8	1397.0
32.5°	1389.2	1373.3	1379.0	1361.6	1359.9
35°	1330.3	1314.7	1318.7	1301.2	1299.8
37.5°	1263.3	1249.1	1251.4	1232.2	1230.8
40°	1215.7	1201.5	1202.6	1182.3	1180.9
42.5°	1163.5	1149.3	1148.1	1127.7	1126.3
45°	1076.4	1062.2	1057.6	1038.6	1035.8
47.5°	977.2	963.0	954.3	938.8	936.9
50°	905.2	891.0	883.5	870.3	866.1
52.5°	827.5	813.3	806.9	794.9	790.6
55°	705.0	693.7	689.1	677.4	674.6
57.5°	588.7	581.0	579.7	568.4	567.2
60°	517.9	513.6	513.5	503.4	503.4
62.5°	457.5	454.4	456.7	450.0	448.8
65°	378.6	375.8	380.1	377.2	377.2
67.5°	316.3	316.3	318.9	317.7	317.7
70°	281.4	281.4	282.9	282.9	282.9
72.5°	250.1	249.0	252.7	252.7	251.5
75°	204.5	204.5	204.5	206.0	206.0
77.5°	159.3	159.6	160.7	160.4	159.3
80°	129.1	130.5	130.6	129.1	129.1
82.5°	98.9	100.4	100.4	100.1	98.9
85°	52.2	55.1	58.0	58.0	58.0
87.5°	15.1	19.6	23.2	23.2	22.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.1	26.9	62.5	18.2	13.7
95°	16.5	65.6	294.6	102.0	62.9
97.5°	30.3	76.8	453.7	324.7	222.5
100°	40.0	83.5	488.3	494.6	381.0
102.5°	50.7	90.6	480.6	633.0	533.8
105°	67.3	102.1	441.3	779.4	740.9
107.5°	84.2	115.4	395.3	820.7	855.0
110°	95.9	125.1	368.9	804.9	881.9

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	107.0	134.7	351.1	767.6	877.3
115°	125.1	151.2	334.6	708.8	832.4
117.5°	141.0	165.4	324.8	644.6	775.5
120°	153.7	174.1	323.8	607.9	733.3
122.5°	163.8	184.3	321.3	575.7	692.2
125°	176.5	195.8	319.4	530.0	633.6
127.5°	190.3	208.4	318.3	502.6	588.1
130°	197.5	215.5	316.8	483.6	558.1
132.5°	205.1	222.6	316.8	468.7	537.3
135°	215.9	233.9	315.6	447.7	506.0
137.5°	226.0	243.5	315.4	429.8	480.3
140°	233.7	251.7	314.9	415.1	463.5
142.5°	242.3	257.3	316.4	403.3	446.7
145°	254.6	267.6	318.1	387.5	422.2
147.5°	265.1	277.8	320.9	371.5	401.5
150°	274.3	283.0	321.9	366.2	387.3
152.5°	281.4	290.6	322.9	359.0	378.7
155°	290.8	297.6	325.7	350.2	364.4
157.5°	302.5	306.6	326.3	346.1	356.3
160°	308.6	311.7	328.9	343.1	351.7
162.5°	312.1	315.7	329.4	340.5	347.2
165°	321.3	322.5	329.5	336.6	341.6
167.5°	327.5	326.4	332.4	335.7	337.6
170°	329.5	328.9	331.4	332.1	334.6
172.5°	334.1	332.0	333.0	331.1	333.1
175°	336.5	334.6	333.3	331.4	328.9
177.5°	337.5	334.5	333.0	330.9	331.4
180°	334.0	334.0	334.0	334.0	334.0

(END OF REPORT)