

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: P564179

Luminaire Tested: **SQ4-PR1-0U-075D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564179  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-PR1-0U-075D-935-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

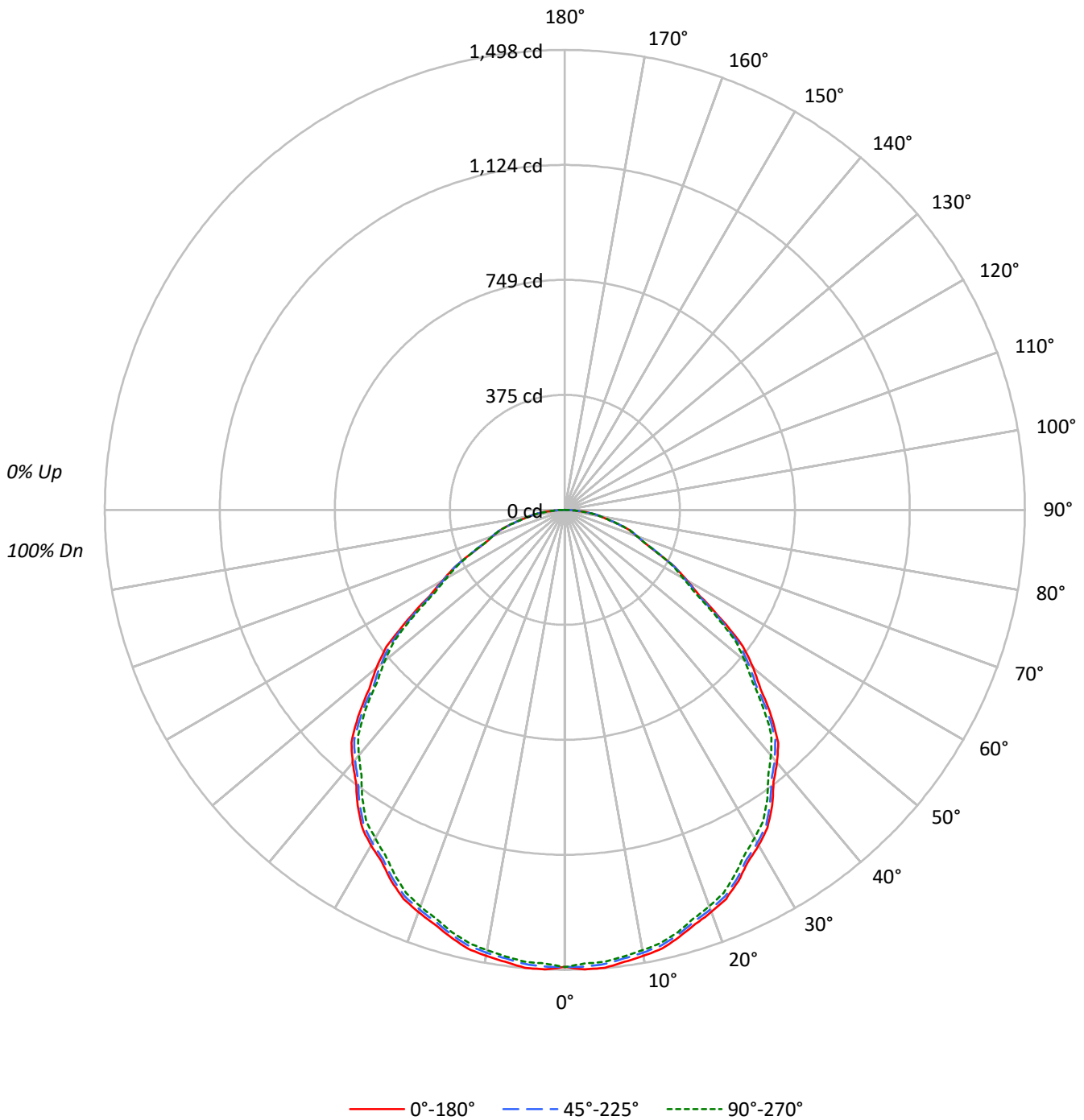
Lumens per Lamp: N/A  
Luminaire Lumens: 3722.5 lumens  
Efficiency: N/A  
Efficacy: 92.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Direct

Input Watts (W): 40.4  
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27

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

	0°	45°	90°
0°	9159	9159	9159
5°	9242	9170	9123
10°	9212	9148	9100
15°	9172	9114	9065
20°	9125	9067	8999
25°	9061	9000	8896
30°	8963	8900	8772
35°	8831	8754	8629
40°	8630	8537	8383
45°	8278	8133	7966
50°	7658	7474	7327
55°	6684	6533	6396
60°	5633	5585	5474
65°	4871	4890	4854
70°	4474	4498	4498
75°	4297	4297	4328
80°	4042	4088	4042
85°	3260	3620	3620



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.8	3.8
10°-20°	402.9	10.8
20°-30°	607.7	16.3
30°-40°	724.0	19.5
40°-50°	713.8	19.2
50°-60°	545.6	14.7
60°-70°	337.6	9.1
70°-80°	191.7	5.2
80°-90°	58.3	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1151.4	30.9
0°-40°	1875.4	50.4
0°-60°	3134.8	84.2
0°-90°	3722.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3722.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1489	1489	1489	1489	1489	
5°	1497	1480	1485	1480	1478	142
15°	1440	1425	1431	1426	1424	406
25°	1335	1319	1326	1312	1311	614
35°	1176	1162	1166	1150	1149	734
45°	952	939	935	918	916	729
55°	623	613	609	599	596	559
65°	335	332	336	334	334	339
75°	181	181	181	182	182	191
85°	46	49	51	51	51	55
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1489.1	1489.1	1489.1	1489.1	1489.1
2.5°	1498.3	1485.2	1489.1	1485.8	1478.8
5°	1496.8	1480.4	1485.2	1480.0	1477.5
7.5°	1485.2	1469.2	1473.9	1468.8	1467.3
10°	1474.9	1459.9	1464.7	1459.5	1457.0
12.5°	1463.7	1447.6	1453.4	1447.2	1444.7
15°	1440.3	1425.3	1431.3	1426.2	1423.6
17.5°	1414.7	1398.6	1404.7	1398.7	1395.4
20°	1394.1	1379.1	1385.2	1376.2	1374.9
22.5°	1371.6	1356.5	1362.6	1350.5	1350.3
25°	1335.1	1318.8	1326.2	1312.0	1310.8
27.5°	1291.8	1276.7	1282.8	1268.4	1266.9
30°	1262.0	1247.0	1253.1	1237.6	1235.1
32.5°	1228.2	1214.1	1219.2	1203.8	1202.3
35°	1176.1	1162.3	1165.9	1150.4	1149.2
37.5°	1116.9	1104.3	1106.3	1089.4	1088.1
40°	1074.8	1062.2	1063.2	1045.3	1044.0
42.5°	1028.6	1016.1	1015.0	997.0	995.8
45°	951.7	939.1	935.0	918.3	915.8
47.5°	863.9	851.4	843.7	830.0	828.3
50°	800.3	787.8	781.1	769.5	765.7
52.5°	731.6	719.0	713.4	702.8	699.0
55°	623.3	613.3	609.2	598.9	596.4
57.5°	520.5	513.7	512.5	502.5	501.5
60°	457.9	454.1	454.0	445.0	445.0
62.5°	404.5	401.8	403.8	397.8	396.8
65°	334.7	332.2	336.0	333.5	333.5
67.5°	279.6	279.6	281.9	280.9	280.9
70°	248.8	248.8	250.1	250.1	250.1
72.5°	221.1	220.1	223.4	223.4	222.4
75°	180.8	180.8	180.8	182.1	182.1
77.5°	140.8	141.1	142.1	141.8	140.8
80°	114.1	115.4	115.4	114.1	114.1
82.5°	87.5	88.7	88.8	88.5	87.5
85°	46.2	48.7	51.3	51.3	51.3
87.5°	13.3	17.4	20.5	20.5	19.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)