

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: P563987

Luminaire Tested: **SQ4-PR1-050U-075D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563987  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PR1-050U-075D-935-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

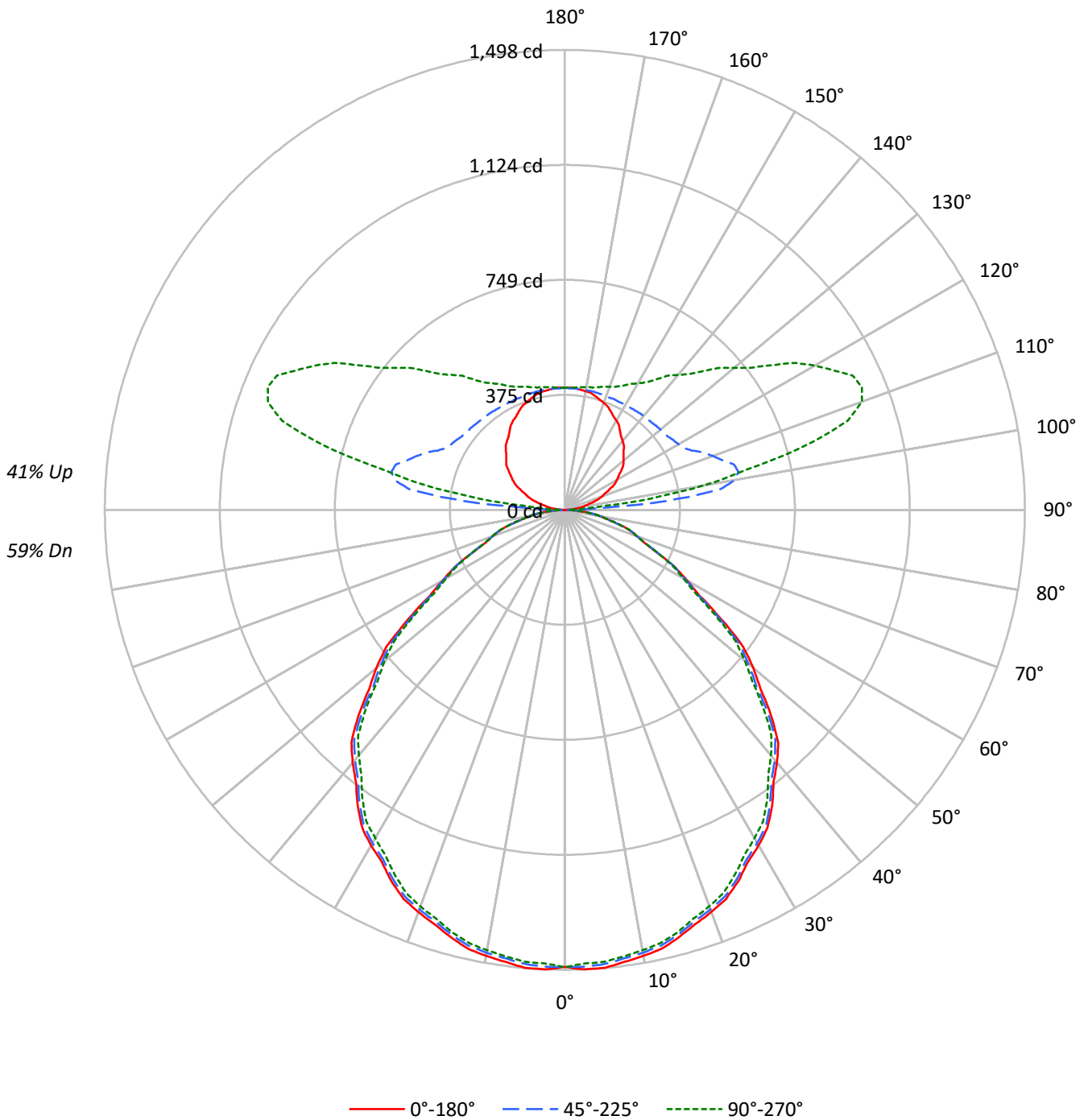
Lumens per Lamp: N/A  
Luminaire Lumens: 6320.1 lumens  
Efficiency: N/A  
Efficacy: 108.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 58.5  
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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64	59
1	100	96	92	89	93	90	86	83	78	76	73	67	65	64	57	56	55	50
2	91	84	78	73	85	79	73	69	69	65	61	59	56	54	51	49	47	43
3	84	74	67	61	78	70	63	58	61	56	52	53	49	46	45	43	40	37
4	77	66	58	52	71	62	55	49	54	49	44	47	43	40	41	38	35	32
5	71	59	51	45	66	55	48	43	49	43	39	43	38	35	37	33	31	28
6	65	53	45	39	61	50	43	37	44	38	34	39	34	30	33	30	27	24
7	60	48	40	34	56	45	38	33	40	34	30	35	30	27	31	27	24	22
8	56	44	36	30	52	41	34	29	37	31	27	32	28	24	28	24	22	19
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	22	20	17
10	49	37	29	25	46	35	28	24	31	25	22	27	23	20	24	20	18	16

**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	2.2
10°-20°	402.9	6.4
20°-30°	607.7	9.6
30°-40°	724.0	11.5
40°-50°	713.8	11.3
50°-60°	545.6	8.6
60°-70°	337.6	5.3
70°-80°	191.7	3.0
80°-90°	59.9	0.9
90°-100°	190.9	3.0
100°-110°	518.5	8.2
110°-120°	533.1	8.4
120°-130°	426.2	6.7
130°-140°	334.9	5.3
140°-150°	256.8	4.1
150°-160°	184.7	2.9
160°-170°	112.9	1.8
170°-180°	38.1	0.6
0°-30°	1151.4	18.2
0°-40°	1875.4	29.7
0°-60°	3134.8	49.6
0°-90°	3724.0	58.9
90°-120°	1242.5	19.7
90°-150°	2260.4	35.8
90°-180°	2596.0	41.1
0°-180°	6320.1	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	54
90°	1	5	9	12	12	4
95°	28	104	332	145	97	30
105°	92	143	570	868	817	98
115°	164	199	456	908	1034	161
125°	225	256	413	696	821	201
135°	271	301	402	567	639	210
145°	313	336	396	482	518	197
155°	354	367	394	432	445	163
165°	384	389	395	412	413	108
175°	398	399	396	401	400	38
180°	398	398	398	398	398	



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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°	13.6	18.4	22.3	22.8	21.8
90°	1.3	5.0	8.9	11.5	11.5
92.5°	11.5	52.3	90.8	39.0	33.0
95°	28.1	104.4	332.4	144.7	97.2
97.5°	46.5	115.3	509.6	396.5	278.5
100°	58.8	122.6	563.8	571.5	461.5
102.5°	71.1	129.8	578.1	706.9	609.8
105°	92.1	143.3	570.2	868.2	817.0
107.5°	113.8	159.0	537.2	951.5	965.8
110°	129.1	170.4	512.7	967.9	1029.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	142.4	181.7	488.1	954.3	1046.6
115°	163.6	198.7	456.4	908.1	1034.3
117.5°	183.6	217.1	436.2	842.4	984.7
120°	196.9	229.4	427.0	798.4	939.7
122.5°	208.1	240.6	420.9	754.3	890.6
125°	225.0	256.3	413.0	695.8	820.8
127.5°	240.1	271.1	408.6	651.4	758.7
130°	249.3	279.3	406.6	623.5	719.8
132.5°	258.5	288.5	404.5	599.8	685.0
135°	271.0	301.0	401.5	566.7	639.3
137.5°	284.6	311.8	399.9	537.6	598.6
140°	292.8	319.0	398.9	519.0	574.0
142.5°	301.0	325.2	397.9	504.5	550.5
145°	313.2	335.7	396.3	481.5	517.8
147.5°	327.0	346.3	395.1	463.5	492.0
150°	336.2	352.5	395.1	453.1	475.6
152.5°	343.4	357.7	394.0	443.8	462.3
155°	354.1	366.6	393.8	432.4	444.9
157.5°	364.6	374.4	393.8	424.7	434.2
160°	370.8	379.5	393.8	419.5	427.0
162.5°	376.9	383.7	394.8	415.4	420.9
165°	383.6	388.6	395.1	411.7	413.0
167.5°	390.5	393.0	396.3	407.4	408.4
170°	392.5	395.0	396.3	405.3	405.3
172.5°	394.5	396.0	396.3	403.2	403.2
175°	397.6	398.9	396.3	401.4	400.2
177.5°	398.6	398.6	395.6	399.6	397.6
180°	397.6	397.6	397.6	397.6	397.6

(END OF REPORT)