

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: P564060

Luminaire Tested: **SQ4-PR1-075U-050D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564060  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-050D-935-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

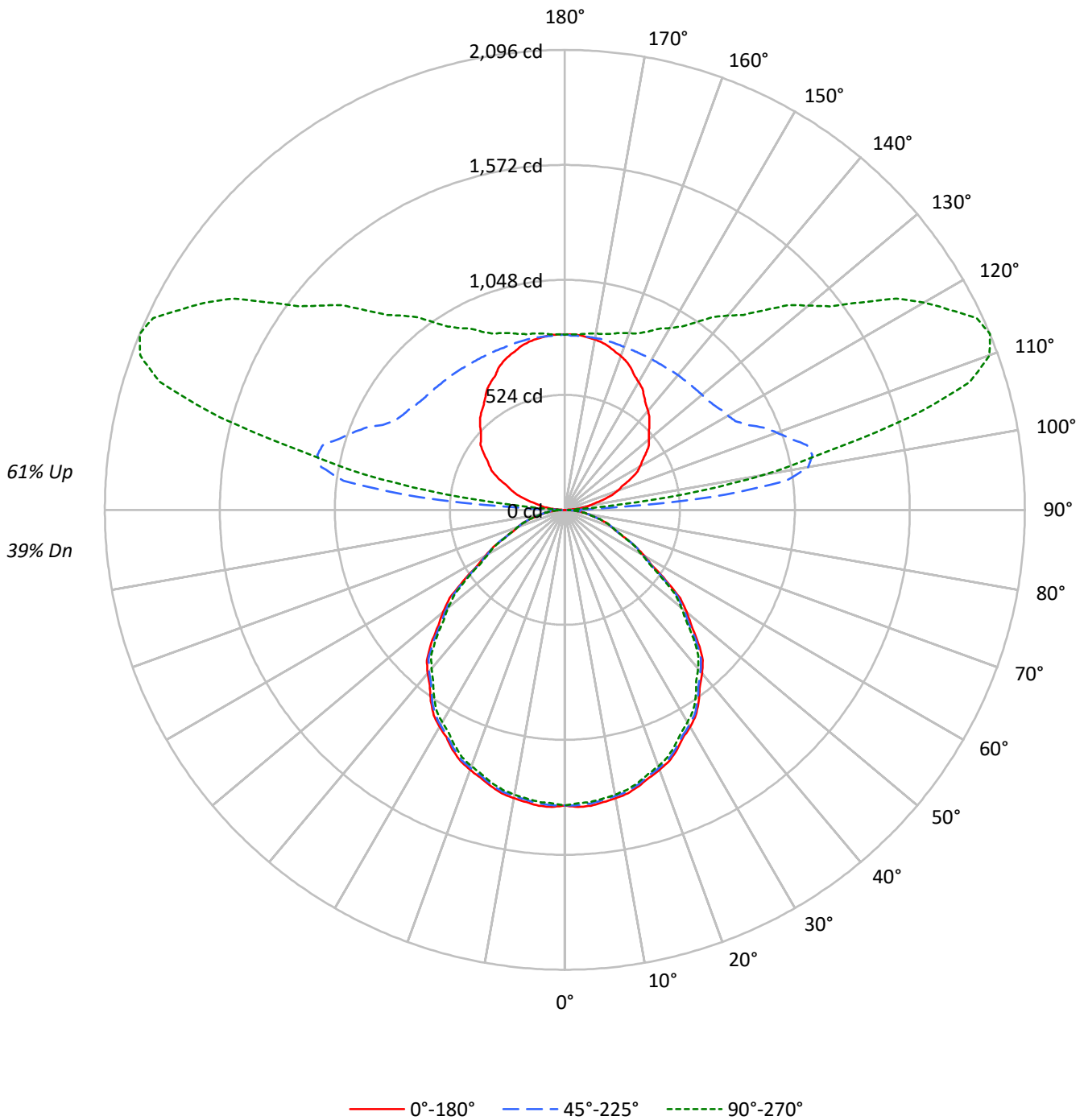
Lumens per Lamp: N/A  
Luminaire Lumens: 8572.1 lumens  
Efficiency: N/A  
Efficacy: 119.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 71.8  
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	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	96	91	88	84	87	83	80	77	68	66	64	54	53	51	41	40	39	34
2	87	80	74	69	79	73	68	64	60	56	53	48	45	43	37	35	34	28
3	80	71	63	58	72	64	58	53	53	49	45	42	39	37	33	31	29	24
4	73	63	55	49	66	57	51	45	47	42	38	38	34	32	29	27	25	21
5	67	56	48	42	61	51	44	39	42	37	33	34	30	27	26	24	22	18
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	21	19	16
7	57	45	37	32	52	41	35	30	34	29	25	28	24	21	22	19	17	14
8	53	41	33	28	48	38	31	26	31	26	23	26	22	19	20	17	15	13
9	49	37	30	25	45	34	28	23	29	24	20	23	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	26	22	18	22	18	15	17	15	13	11

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

	0°	45°	90°
0°	6214	6214	6214
5°	6270	6222	6189
10°	6250	6207	6174
15°	6223	6184	6151
20°	6191	6152	6106
25°	6148	6106	6036
30°	6082	6038	5952
35°	5992	5940	5855
40°	5855	5793	5687
45°	5616	5518	5404
50°	5196	5071	4971
55°	4535	4432	4339
60°	3821	3789	3714
65°	3305	3318	3293
70°	3036	3052	3052
75°	2916	2916	2937
80°	2744	2773	2744
85°	2212	2456	2456



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.4	1.5
10°-20°	364.5	4.3
20°-30°	549.7	6.4
30°-40°	655.0	7.6
40°-50°	645.8	7.5
50°-60°	493.5	5.8
60°-70°	305.4	3.6
70°-80°	173.5	2.0
80°-90°	54.8	0.6
90°-100°	376.7	4.4
100°-110°	1036.3	12.1
110°-120°	1069.6	12.5
120°-130°	857.0	10.0
130°-140°	673.1	7.9
140°-150°	515.8	6.0
150°-160°	370.9	4.3
160°-170°	226.8	2.6
170°-180°	76.4	0.9
0°-30°	1041.6	12.2
0°-40°	1696.6	19.8
0°-60°	2835.9	33.1
0°-90°	3369.5	39.3
90°-120°	2482.6	29.0
90°-150°	4528.5	52.8
90°-180°	5203.0	60.7
0°-180°	8572.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1347	1347	1347	1347	1347	
5°	1354	1339	1344	1339	1337	128
15°	1303	1289	1295	1290	1288	368
25°	1208	1193	1200	1187	1186	556
35°	1064	1052	1055	1041	1040	664
45°	861	850	846	831	828	660
55°	564	555	551	542	540	505
65°	303	301	304	302	302	307
75°	164	164	164	165	165	173
85°	42	44	46	46	46	49
90°	2	7	12	15	15	5
95°	56	206	666	285	182	59
105°	185	285	1142	1739	1623	195
115°	328	399	916	1824	2070	324
125°	452	515	831	1406	1646	403
135°	545	605	807	1137	1286	421
145°	630	674	795	968	1043	395
155°	714	737	790	870	896	328
165°	771	781	794	826	831	217
175°	799	800	795	805	804	76
180°	799	799	799	799	799	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1347.1	1347.1	1347.1	1347.1	1347.1
2.5°	1355.4	1343.6	1347.1	1344.1	1337.8
5°	1354.0	1339.3	1343.6	1338.9	1336.6
7.5°	1343.6	1329.1	1333.4	1328.7	1327.3
10°	1334.3	1320.7	1325.0	1320.3	1318.1
12.5°	1324.1	1309.6	1314.8	1309.2	1306.9
15°	1303.0	1289.4	1294.8	1290.2	1287.9
17.5°	1279.8	1265.2	1270.7	1265.3	1262.4
20°	1261.2	1247.6	1253.1	1244.9	1243.8
22.5°	1240.8	1227.2	1232.7	1221.7	1221.5
25°	1207.8	1193.1	1199.7	1186.9	1185.8
27.5°	1168.6	1155.0	1160.5	1147.5	1146.1
30°	1141.7	1128.1	1133.6	1119.6	1117.3
32.5°	1111.1	1098.4	1102.9	1089.0	1087.6
35°	1064.0	1051.5	1054.7	1040.7	1039.6
37.5°	1010.4	999.0	1000.8	985.5	984.4
40°	972.3	961.0	961.9	945.6	944.4
42.5°	930.5	919.2	918.2	902.0	900.8
45°	860.9	849.6	845.8	830.7	828.4
47.5°	781.5	770.2	763.2	750.9	749.3
50°	724.0	712.7	706.6	696.1	692.7
52.5°	661.8	650.5	645.3	635.7	632.3
55°	563.9	554.8	551.1	541.8	539.5
57.5°	470.8	464.7	463.6	454.6	453.7
60°	414.2	410.8	410.7	402.6	402.6
62.5°	365.9	363.4	365.2	359.9	359.0
65°	302.8	300.6	304.0	301.7	301.7
67.5°	252.9	252.9	255.0	254.1	254.1
70°	225.1	225.1	226.3	226.3	226.3
72.5°	200.0	199.1	202.1	202.1	201.2
75°	163.6	163.6	163.6	164.8	164.8
77.5°	127.4	127.6	128.6	128.3	127.4
80°	103.3	104.4	104.4	103.3	103.3
82.5°	79.1	80.3	80.3	80.0	79.1
85°	41.8	44.0	46.4	46.4	46.4
87.5°	12.4	17.0	20.9	21.6	20.7
90°	1.7	6.7	11.9	15.3	15.3
92.5°	23.4	100.2	173.7	66.7	54.7
95°	56.1	205.6	666.1	284.8	181.8
97.5°	91.4	228.0	1016.4	783.2	552.6
100°	117.2	241.8	1126.5	1137.1	927.7
102.5°	141.7	258.3	1155.1	1410.7	1218.6
105°	185.2	284.9	1141.8	1739.0	1622.7
107.5°	226.7	317.7	1076.9	1899.8	1934.3
110°	256.6	339.6	1028.0	1939.7	2059.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	283.8	364.2	979.0	1914.0	2096.1
115°	327.9	399.4	915.8	1823.7	2069.6
117.5°	370.1	435.9	875.7	1697.0	1975.1
120°	395.9	459.0	858.1	1602.0	1889.5
122.5°	419.0	482.1	845.8	1518.8	1791.6
125°	452.0	515.1	830.9	1405.6	1646.5
127.5°	483.2	543.4	821.0	1311.1	1522.4
130°	499.5	561.0	815.6	1255.0	1447.7
132.5°	518.6	580.1	811.5	1205.6	1379.7
135°	545.4	605.2	807.1	1136.7	1286.3
137.5°	570.6	626.1	803.4	1081.1	1204.4
140°	589.6	641.1	802.0	1044.1	1155.4
142.5°	605.9	653.4	799.3	1011.1	1106.5
145°	630.4	673.6	795.2	968.5	1043.3
147.5°	656.6	693.8	793.2	930.8	990.6
150°	672.9	706.1	791.8	910.1	956.6
152.5°	687.8	718.4	790.4	892.2	930.8
155°	713.6	736.9	790.1	870.5	895.5
157.5°	732.3	751.3	790.1	852.7	870.0
160°	745.9	760.9	790.1	843.1	856.4
162.5°	756.8	769.1	791.5	834.9	845.5
165°	771.4	781.4	793.5	825.9	830.9
167.5°	781.6	789.2	795.2	818.3	819.7
170°	788.4	793.4	795.2	815.6	815.6
172.5°	793.8	796.2	795.2	811.5	810.2
175°	798.6	800.3	795.2	805.4	803.7
177.5°	800.0	800.0	794.5	802.6	800.0
180°	798.6	798.6	798.6	798.6	798.6

(END OF REPORT)