

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: P563388

Luminaire Tested: **SQ4-PP3-075U-050D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563388  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-075U-050D-935-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

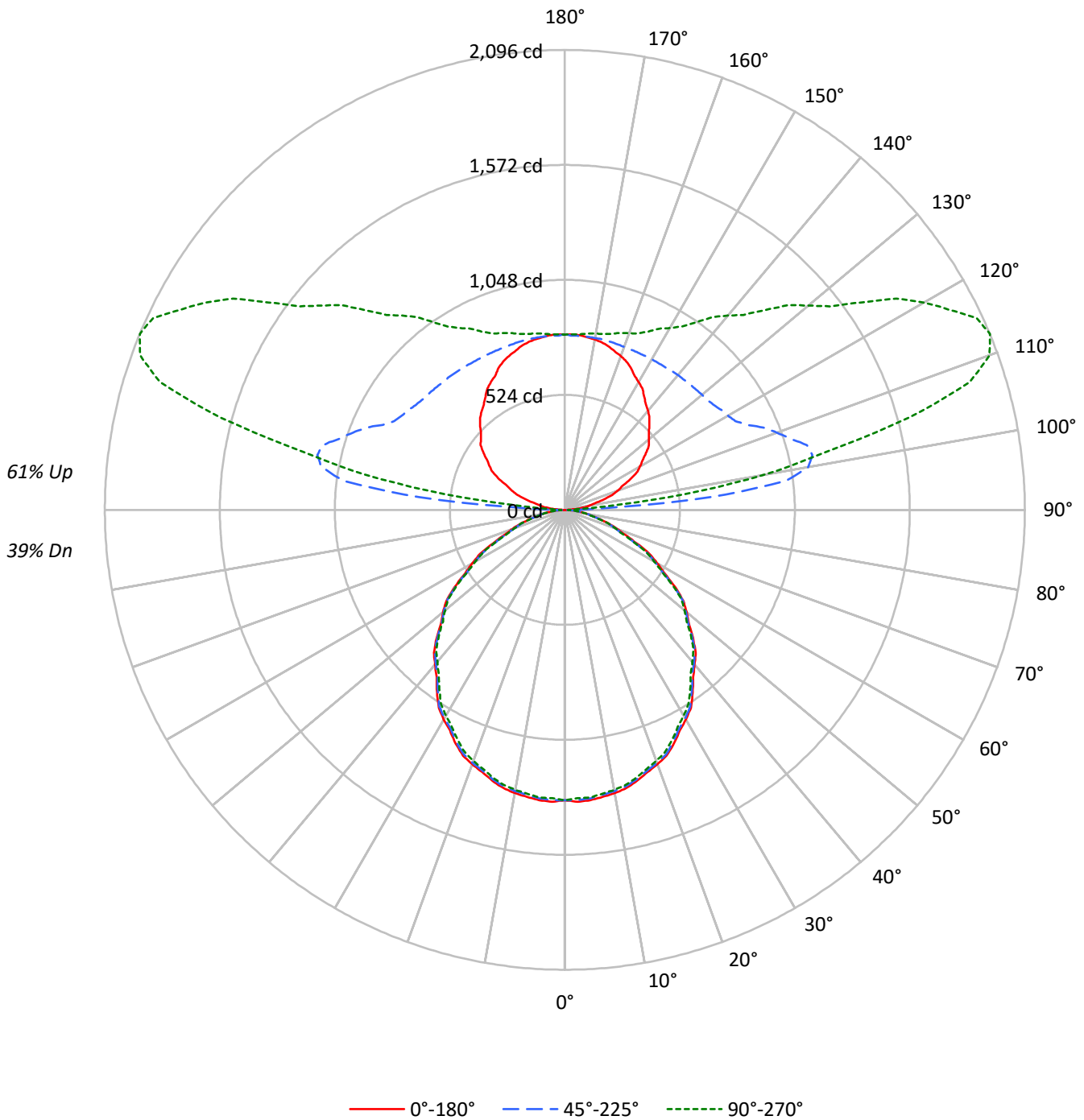
Lumens per Lamp: N/A  
Luminaire Lumens: 8592.1 lumens  
Efficiency: N/A  
Efficacy: 119.7 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Indirect

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	40	34
2	87	80	74	69	79	73	68	64	60	56	53	48	45	43	36	35	33	28
3	80	70	63	58	72	64	58	53	53	48	45	42	39	37	32	30	29	24
4	73	62	55	49	66	57	50	45	47	42	38	38	34	31	29	27	25	21
5	67	55	47	42	60	51	44	39	42	37	33	34	30	27	26	24	22	18
6	61	50	42	36	56	46	39	34	38	33	29	30	27	24	24	21	19	16
7	57	45	37	32	51	41	34	29	34	29	25	28	24	21	22	19	17	14
8	53	41	33	28	48	37	31	26	31	26	22	25	21	19	20	17	15	13
9	49	37	30	25	44	34	28	23	28	23	20	23	19	17	18	16	14	11
10	46	34	27	22	42	31	25	21	26	21	18	21	18	15	17	14	12	10

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

	0°	45°	90°
0°	6105	6105	6105
5°	6151	6113	6091
10°	6140	6097	6069
15°	6099	6066	6033
20°	6059	6025	5979
25°	5987	5946	5887
30°	5876	5845	5771
35°	5722	5683	5611
40°	5540	5505	5441
45°	5388	5350	5297
50°	5195	5161	5111
55°	4926	4861	4823
60°	4484	4356	4334
65°	3950	3786	3773
70°	3411	3269	3269
75°	2936	2895	2854
80°	2588	2619	2558
85°	2027	2212	2212



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.2	1.5
10°-20°	357.4	4.2
20°-30°	535.3	6.2
30°-40°	627.8	7.3
40°-50°	629.8	7.3
50°-60°	537.3	6.3
60°-70°	350.4	4.1
70°-80°	175.8	2.0
80°-90°	50.7	0.6
90°-100°	376.7	4.4
100°-110°	1036.3	12.1
110°-120°	1069.6	12.4
120°-130°	857.0	10.0
130°-140°	673.1	7.8
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°	1017.8	11.8
0°-40°	1645.6	19.2
0°-60°	2812.7	32.7
0°-90°	3389.6	39.4
90°-120°	2482.6	28.9
90°-150°	4528.5	52.7
90°-180°	5203.0	60.6
0°-180°	8592.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1324	1324	1324	1324	1324	
5°	1328	1316	1320	1315	1315	126
15°	1277	1265	1270	1266	1263	360
25°	1176	1163	1168	1158	1156	541
35°	1016	1006	1009	998	996	635
45°	826	820	820	812	812	636
55°	612	610	604	601	600	544
65°	362	355	347	344	346	361
75°	165	165	162	161	160	179
85°	38	42	42	42	42	45
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°	1323.5	1323.5	1323.5	1323.5	1323.5
2.5°	1331.9	1321.0	1323.5	1321.6	1316.1
5°	1328.2	1315.7	1320.1	1315.4	1315.4
7.5°	1319.1	1305.5	1309.9	1305.2	1305.0
10°	1310.8	1297.2	1301.5	1296.8	1295.7
12.5°	1298.7	1285.1	1290.4	1284.8	1284.6
15°	1277.1	1264.7	1270.2	1265.5	1263.2
17.5°	1252.8	1239.2	1245.8	1239.3	1238.4
20°	1234.2	1220.6	1227.3	1218.0	1218.0
22.5°	1212.0	1198.3	1205.9	1193.9	1193.9
25°	1176.2	1162.6	1168.1	1157.6	1156.5
27.5°	1133.8	1120.4	1126.1	1114.3	1114.0
30°	1103.1	1090.7	1097.3	1084.6	1083.4
32.5°	1069.7	1058.2	1063.0	1050.2	1049.1
35°	1016.1	1005.9	1009.2	997.6	996.4
37.5°	959.8	949.3	953.0	943.1	942.6
40°	919.9	913.1	914.1	905.9	903.6
42.5°	882.7	875.0	876.0	867.9	867.4
45°	825.9	820.2	820.1	812.0	812.0
47.5°	765.6	761.3	760.0	753.3	753.1
50°	723.8	720.4	719.2	713.4	712.2
52.5°	680.2	678.6	674.6	669.8	669.5
55°	612.5	610.2	604.4	600.8	599.7
57.5°	538.9	534.4	527.8	522.7	523.6
60°	486.0	481.5	472.1	469.8	469.8
62.5°	435.0	429.6	420.1	416.9	418.8
65°	361.9	355.1	346.8	344.5	345.7
67.5°	295.6	289.4	280.5	280.5	279.6
70°	252.9	249.5	242.4	242.4	242.4
72.5°	214.8	213.2	208.1	208.1	207.2
75°	164.7	164.7	162.4	161.2	160.1
77.5°	123.4	123.9	122.7	121.5	119.5
80°	97.4	99.7	98.6	97.4	96.3
82.5°	73.3	75.6	75.4	73.3	73.1
85°	38.3	41.7	41.8	41.8	41.8
87.5°	10.5	15.2	17.2	17.9	18.8
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)