

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: P563576

Luminaire Tested: **SQ4-PP3-100U-050D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563576  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PP3-100U-050D-930-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

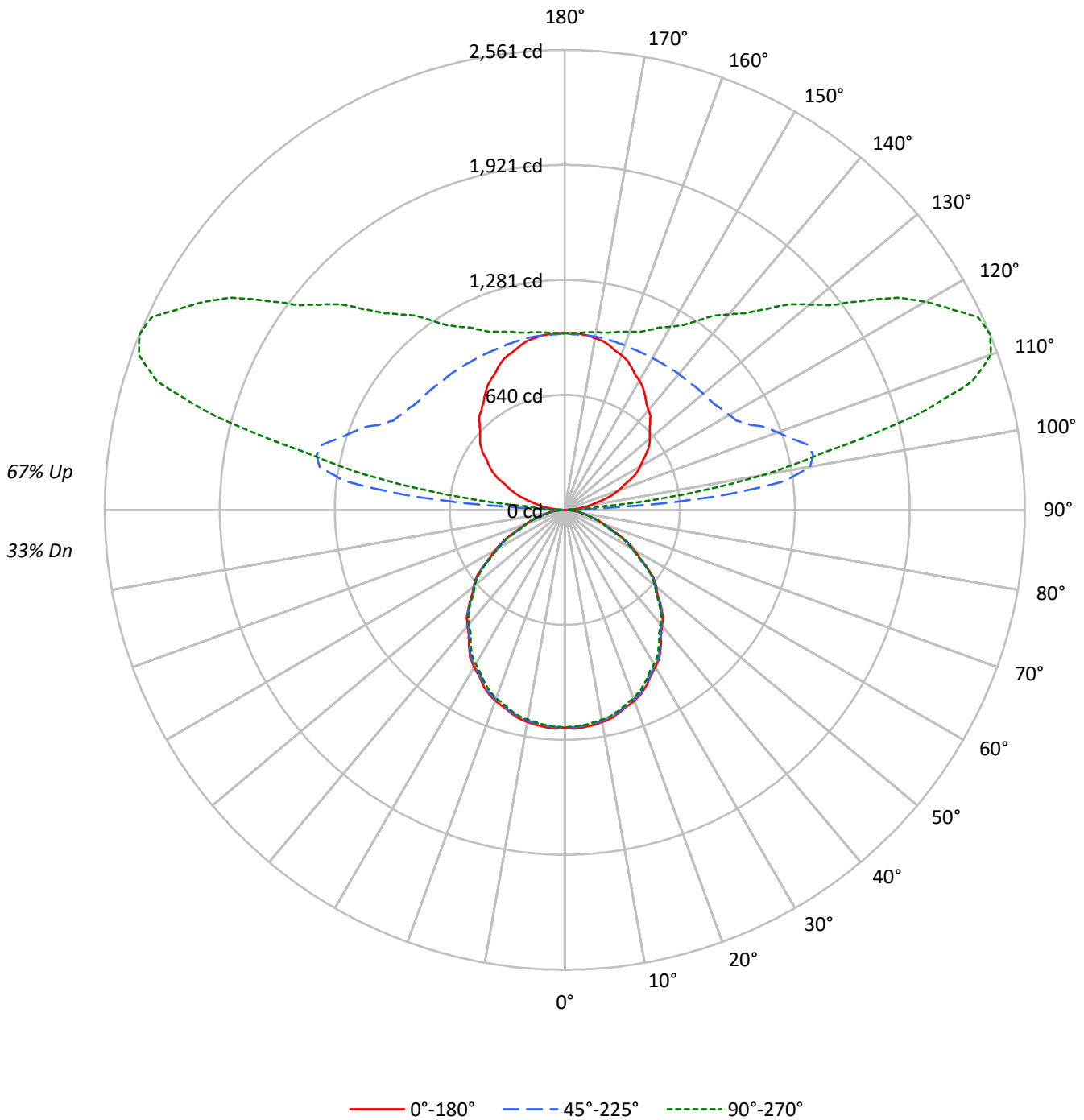
Lumens per Lamp: N/A  
Luminaire Lumens: 9496.4 lumens  
Efficiency: N/A  
Efficacy: 112.1 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 84.7  
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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	33
1	94	90	86	83	85	81	78	75	65	63	61	50	48	47	36	35	34	28
2	86	79	73	68	77	71	66	62	57	53	50	44	41	39	32	30	29	23
3	78	69	62	56	70	63	57	52	50	46	42	39	36	33	28	26	25	20
4	71	61	53	48	64	55	49	44	45	40	36	34	31	29	25	23	21	17
5	66	54	47	41	59	49	43	37	40	35	31	31	27	25	23	20	19	15
6	60	49	41	35	54	44	37	32	36	31	27	28	24	22	20	18	16	13
7	56	44	36	31	50	40	33	28	32	27	24	25	22	19	19	16	15	12
8	52	40	32	27	46	36	30	25	29	24	21	23	20	17	17	15	13	10
9	48	36	29	24	43	33	27	22	27	22	19	21	18	15	16	13	12	9
10	45	33	26	21	40	30	24	20	25	20	17	19	16	14	15	12	11	9

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

	0°	45°	90°
0°	5592	5592	5592
5°	5633	5598	5579
10°	5623	5584	5558
15°	5586	5556	5525
20°	5549	5518	5476
25°	5483	5445	5391
30°	5382	5353	5285
35°	5241	5205	5139
40°	5073	5041	4984
45°	4935	4900	4851
50°	4757	4727	4681
55°	4511	4452	4417
60°	4107	3989	3969
65°	3618	3467	3456
70°	3124	2994	2994
75°	2690	2650	2613
80°	2370	2399	2343
85°	1858	2022	2022



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.6	1.2
10°-20°	327.3	3.4
20°-30°	490.2	5.2
30°-40°	575.0	6.1
40°-50°	576.8	6.1
50°-60°	492.1	5.2
60°-70°	320.9	3.4
70°-80°	161.0	1.7
80°-90°	46.6	0.5
90°-100°	460.7	4.9
100°-110°	1271.9	13.4
110°-120°	1311.7	13.8
120°-130°	1054.1	11.1
130°-140°	828.4	8.7
140°-150°	635.3	6.7
150°-160°	456.6	4.8
160°-170°	279.2	2.9
170°-180°	94.1	1.0
0°-30°	932.1	9.8
0°-40°	1507.1	15.9
0°-60°	2576.0	27.1
0°-90°	3104.4	32.7
90°-120°	3044.3	32.1
90°-150°	5562.0	58.6
90°-180°	6392.0	67.3
0°-180°	9496.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1212	1212	1212	1212	1212	
5°	1216	1205	1209	1205	1205	116
15°	1170	1158	1163	1159	1157	330
25°	1077	1065	1070	1060	1059	495
35°	931	921	924	914	913	581
45°	756	751	751	744	744	582
55°	561	559	554	550	549	498
65°	332	325	318	316	317	331
75°	151	151	149	148	147	164
85°	35	38	38	38	38	41
90°	3	6	13	14	16	6
95°	68	249	836	344	224	72
105°	227	350	1399	2136	2012	241
115°	406	491	1127	2231	2537	399
125°	557	634	1022	1729	2029	496
135°	670	743	993	1400	1579	519
145°	778	831	981	1192	1283	487
155°	877	906	973	1070	1103	404
165°	949	962	978	1015	1023	268
175°	984	985	979	993	990	93
180°	984	984	984	984	984	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1212.1	1212.1	1212.1	1212.1	1212.1
2.5°	1219.8	1209.8	1212.1	1210.3	1205.3
5°	1216.4	1205.0	1208.9	1204.7	1204.7
7.5°	1208.1	1195.6	1199.6	1195.3	1195.1
10°	1200.5	1188.0	1192.0	1187.7	1186.6
12.5°	1189.4	1176.9	1181.8	1176.6	1176.4
15°	1169.6	1158.2	1163.3	1159.0	1156.9
17.5°	1147.3	1134.9	1141.0	1135.0	1134.2
20°	1130.3	1117.9	1124.0	1115.5	1115.5
22.5°	1109.9	1097.5	1104.4	1093.4	1093.4
25°	1077.2	1064.8	1069.8	1060.2	1059.2
27.5°	1038.3	1026.1	1031.3	1020.5	1020.3
30°	1010.3	998.9	1005.0	993.3	992.2
32.5°	979.7	969.1	973.5	961.8	960.8
35°	930.6	921.3	924.2	913.6	912.6
37.5°	879.0	869.4	872.8	863.7	863.3
40°	842.4	836.2	837.1	829.6	827.6
42.5°	808.4	801.4	802.3	794.8	794.4
45°	756.4	751.2	751.1	743.6	743.6
47.5°	701.1	697.2	696.0	689.9	689.7
50°	662.9	659.8	658.7	653.3	652.3
52.5°	623.0	621.5	617.9	613.4	613.2
55°	560.9	558.8	553.5	550.3	549.2
57.5°	493.6	489.4	483.4	478.7	479.5
60°	445.1	441.0	432.4	430.2	430.2
62.5°	398.4	393.4	384.8	381.8	383.5
65°	331.5	325.2	317.6	315.5	316.6
67.5°	270.7	265.1	256.9	256.9	256.0
70°	231.6	228.5	222.0	222.0	222.0
72.5°	196.7	195.3	190.6	190.6	189.7
75°	150.9	150.9	148.7	147.6	146.6
77.5°	113.0	113.4	112.4	111.3	109.4
80°	89.2	91.3	90.3	89.2	88.2
82.5°	67.1	69.2	69.1	67.1	66.9
85°	35.1	38.2	38.2	38.2	38.2
87.5°	10.0	13.9	16.1	16.5	17.6
90°	3.1	6.2	12.6	14.2	15.7
92.5°	28.3	117.6	210.3	76.7	59.8
95°	67.7	249.3	835.8	343.6	223.5
97.5°	112.1	279.2	1238.1	953.2	690.4
100°	144.8	297.2	1386.7	1396.5	1134.9
102.5°	176.3	317.6	1415.7	1725.5	1477.4
105°	226.7	349.8	1399.3	2136.3	2011.6
107.5°	280.2	389.8	1321.2	2334.4	2379.9
110°	318.0	416.5	1260.8	2377.0	2524.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	352.0	446.8	1204.1	2343.3	2561.3
115°	406.1	490.7	1127.0	2231.1	2537.3
117.5°	453.3	537.7	1076.3	2073.0	2421.5
120°	484.8	567.9	1056.2	1966.1	2317.0
122.5°	515.0	594.4	1039.8	1866.2	2198.6
125°	557.2	634.2	1021.5	1728.8	2028.9
127.5°	593.1	670.0	1010.8	1612.7	1871.5
130°	617.0	694.0	1005.8	1541.6	1777.1
132.5°	639.7	712.9	1000.8	1481.9	1695.2
135°	670.5	742.9	993.2	1400.2	1578.8
137.5°	705.2	771.0	989.4	1331.6	1484.0
140°	724.1	788.7	986.9	1285.9	1419.8
142.5°	745.5	805.2	984.4	1245.2	1363.1
145°	777.6	831.4	980.6	1192.0	1282.8
147.5°	808.4	855.5	977.2	1147.2	1217.7
150°	831.1	869.6	975.9	1120.4	1177.4
152.5°	848.7	884.7	974.6	1097.5	1144.6
155°	876.7	906.0	972.7	1069.5	1103.4
157.5°	902.5	925.0	973.1	1049.1	1072.2
160°	917.7	937.7	974.3	1037.7	1054.6
162.5°	930.3	947.8	975.6	1027.5	1040.7
165°	949.1	961.5	977.5	1015.4	1023.1
167.5°	963.6	971.0	979.0	1008.1	1010.5
170°	971.2	977.3	979.0	1004.2	1004.2
172.5°	977.5	981.2	979.0	999.2	997.9
175°	983.8	985.3	979.0	993.1	990.1
177.5°	986.3	985.1	978.7	987.5	985.0
180°	983.8	983.8	983.8	983.8	983.8

(END OF REPORT)