

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: P564106

Luminaire Tested: **SQ4-PR1-075U-100D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564106  
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-100D-935-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

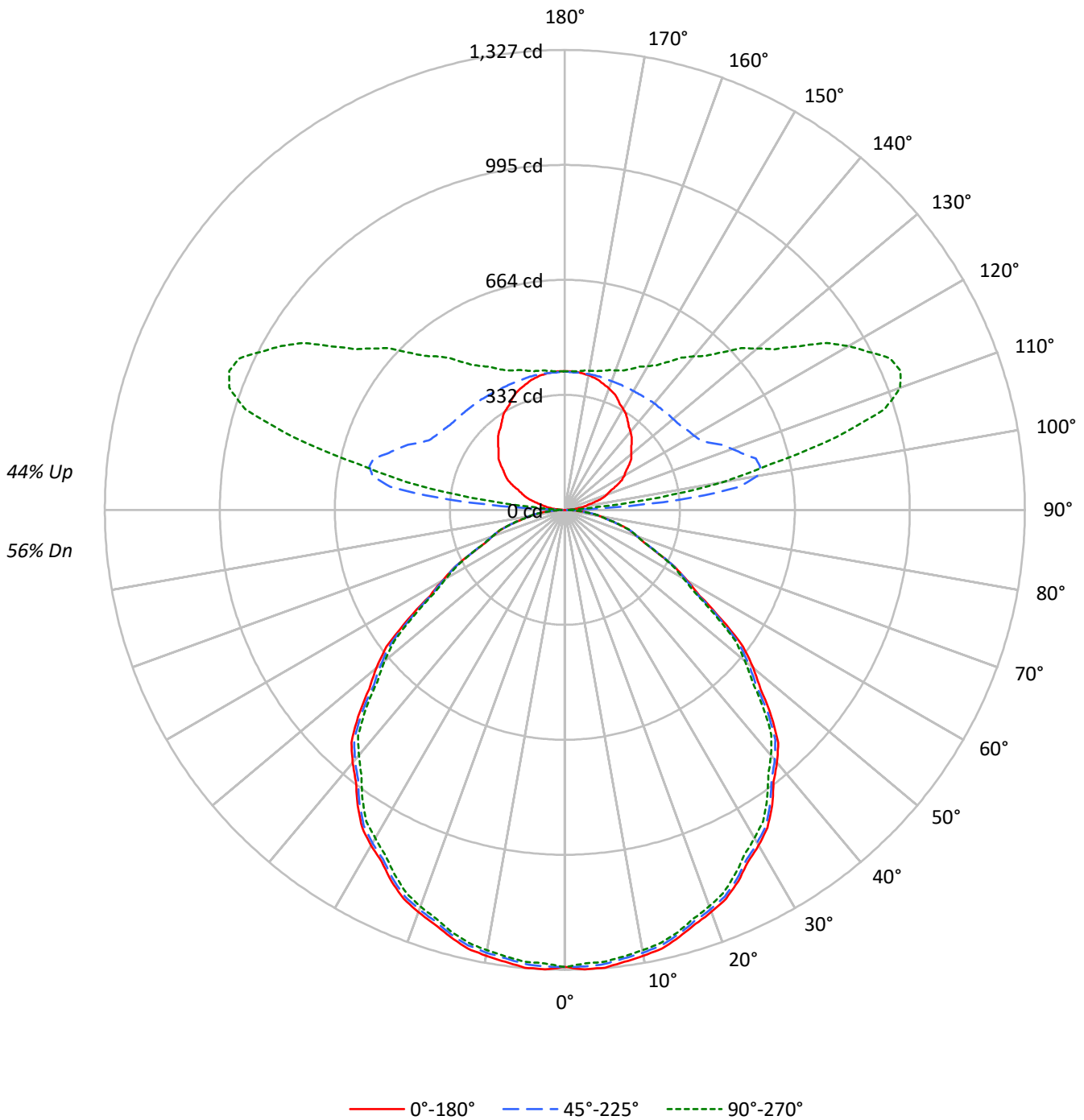
Lumens per Lamp: N/A  
Luminaire Lumens: 5899.6 lumens  
Efficiency: N/A  
Efficacy: 115.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 51.3  
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	101	101	101	101	87	87	87	74	74	74	62	62	62	56
1	99	95	91	88	92	89	85	82	76	74	72	65	64	62	55	54	53	48
2	91	84	77	72	84	78	73	68	67	63	60	58	55	52	49	47	45	41
3	83	74	66	61	77	69	62	57	60	55	51	51	48	45	43	41	38	35
4	76	65	58	52	71	61	54	49	53	48	44	46	42	38	39	36	33	30
5	70	58	50	44	65	55	48	42	48	42	38	41	37	33	35	32	29	26
6	65	53	44	39	60	49	42	37	43	37	33	37	33	29	32	29	26	23
7	60	47	40	34	55	45	37	32	39	33	29	34	30	26	29	26	23	21
8	55	43	35	30	52	41	34	29	36	30	26	31	27	23	27	23	21	18
9	52	39	32	27	48	37	30	26	33	27	23	29	24	21	25	21	19	17
10	48	36	29	24	45	34	28	23	30	25	21	27	22	19	23	20	17	15

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

	0°	45°	90°
0°	12169	12169	12169
5°	12279	12184	12121
10°	12240	12155	12091
15°	12186	12111	12046
20°	12125	12047	11958
25°	12040	11958	11820
30°	11910	11825	11656
35°	11734	11631	11465
40°	11466	11343	11138
45°	10999	10806	10584
50°	10175	9931	9736
55°	8881	8680	8498
60°	7484	7422	7274
65°	6473	6499	6449
70°	5945	5975	5975
75°	5711	5711	5750
80°	5372	5430	5372
85°	4330	4806	4806



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.7	2.1
10°-20°	356.9	6.0
20°-30°	538.3	9.1
30°-40°	641.4	10.9
40°-50°	632.3	10.7
50°-60°	483.2	8.2
60°-70°	299.1	5.1
70°-80°	169.9	2.9
80°-90°	52.7	0.9
90°-100°	188.3	3.2
100°-110°	518.1	8.8
110°-120°	534.8	9.1
120°-130°	428.5	7.3
130°-140°	336.5	5.7
140°-150°	257.9	4.4
150°-160°	185.4	3.1
160°-170°	113.4	1.9
170°-180°	38.2	0.6
0°-30°	1019.9	17.3
0°-40°	1661.2	28.2
0°-60°	2776.8	47.1
0°-90°	3298.4	55.9
90°-120°	1241.3	21.0
90°-150°	2264.2	38.4
90°-180°	2601.0	44.1
0°-180°	5899.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1319	1319	1319	1319	1319	
5°	1326	1311	1316	1311	1309	126
15°	1276	1262	1268	1263	1261	360
25°	1183	1168	1175	1162	1161	544
35°	1042	1030	1033	1019	1018	650
45°	843	832	828	813	811	646
55°	552	543	540	530	528	495
65°	296	294	298	295	295	300
75°	160	160	160	161	161	169
85°	41	43	45	45	45	48
90°	1	3	6	8	8	3
95°	28	103	333	142	91	30
105°	93	142	571	870	811	98
115°	164	200	458	912	1035	162
125°	226	258	415	703	823	202
135°	273	303	404	568	643	210
145°	315	337	398	484	522	198
155°	357	368	395	435	448	164
165°	386	391	397	413	415	109
175°	399	400	398	403	402	38
180°	399	399	399	399	399	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1319.0	1319.0	1319.0	1319.0	1319.0
2.5°	1327.2	1315.6	1319.0	1316.1	1309.9
5°	1325.8	1311.4	1315.6	1311.0	1308.8
7.5°	1315.6	1301.4	1305.6	1301.0	1299.7
10°	1306.5	1293.2	1297.4	1292.8	1290.6
12.5°	1296.5	1282.3	1287.4	1281.9	1279.7
15°	1275.8	1262.5	1267.9	1263.3	1261.1
17.5°	1253.1	1238.9	1244.3	1239.0	1236.1
20°	1234.9	1221.6	1227.0	1219.0	1217.9
22.5°	1214.9	1201.6	1207.0	1196.3	1196.1
25°	1182.7	1168.2	1174.7	1162.2	1161.1
27.5°	1144.3	1130.9	1136.3	1123.6	1122.2
30°	1117.9	1104.6	1110.0	1096.3	1094.1
32.5°	1087.9	1075.5	1080.0	1066.3	1065.0
35°	1041.8	1029.6	1032.7	1019.1	1017.9
37.5°	989.3	978.2	980.0	965.0	963.9
40°	952.0	940.9	941.8	925.9	924.8
42.5°	911.2	900.0	899.1	883.2	882.1
45°	843.0	831.9	828.2	813.4	811.2
47.5°	765.3	754.2	747.3	735.2	733.7
50°	708.9	697.8	691.9	681.6	678.3
52.5°	648.0	636.9	631.9	622.5	619.2
55°	552.1	543.3	539.6	530.5	528.3
57.5°	461.0	455.0	454.0	445.1	444.2
60°	405.6	402.3	402.2	394.2	394.2
62.5°	358.3	355.9	357.6	352.4	351.5
65°	296.5	294.3	297.7	295.4	295.4
67.5°	247.7	247.7	249.7	248.8	248.8
70°	220.4	220.4	221.5	221.5	221.5
72.5°	195.9	195.0	197.9	197.9	197.0
75°	160.2	160.2	160.2	161.3	161.3
77.5°	124.7	125.0	125.9	125.6	124.7
80°	101.1	102.2	102.2	101.1	101.1
82.5°	77.5	78.6	78.6	78.4	77.5
85°	40.9	43.1	45.4	45.4	45.4
87.5°	12.0	16.0	19.4	19.7	18.8
90°	0.8	3.3	5.9	7.6	7.6
92.5°	11.7	50.1	86.8	33.3	27.4
95°	28.0	102.8	333.0	142.4	90.9
97.5°	45.7	114.0	508.2	391.6	276.3
100°	58.6	120.9	563.3	568.5	463.9
102.5°	70.9	129.2	577.5	705.3	609.3
105°	92.6	142.4	570.9	869.5	811.3
107.5°	113.3	158.9	538.5	949.9	967.2
110°	128.3	169.8	514.0	969.9	1029.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	141.9	182.1	489.5	957.0	1048.0
115°	164.0	199.7	457.9	911.8	1034.8
117.5°	185.0	217.9	437.9	848.5	987.5
120°	198.0	229.5	429.0	801.0	944.7
122.5°	209.5	241.1	422.9	759.4	895.8
125°	226.0	257.6	415.4	702.8	823.2
127.5°	241.6	271.7	410.5	655.6	761.2
130°	249.8	280.5	407.8	627.5	723.8
132.5°	259.3	290.0	405.8	602.8	689.9
135°	272.7	302.6	403.5	568.4	643.1
137.5°	285.3	313.0	401.7	540.5	602.2
140°	294.8	320.6	401.0	522.1	577.7
142.5°	303.0	326.7	399.6	505.6	553.2
145°	315.2	336.8	397.6	484.3	521.6
147.5°	328.3	346.9	396.6	465.4	495.3
150°	336.4	353.0	395.9	455.1	478.3
152.5°	343.9	359.2	395.2	446.1	465.4
155°	356.8	368.5	395.1	435.3	447.7
157.5°	366.2	375.6	395.1	426.3	435.0
160°	373.0	380.4	395.1	421.5	428.2
162.5°	378.4	384.5	395.7	417.4	422.7
165°	385.7	390.7	396.8	412.9	415.4
167.5°	390.8	394.6	397.6	409.2	409.8
170°	394.2	396.7	397.6	407.8	407.8
172.5°	396.9	398.1	397.6	405.7	405.1
175°	399.3	400.1	397.6	402.7	401.8
177.5°	400.0	400.0	397.3	401.3	400.0
180°	399.3	399.3	399.3	399.3	399.3

(END OF REPORT)