

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: P564251

Luminaire Tested: **SQ4-PR1-100U-050D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564251  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PR1-100U-050D-935-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

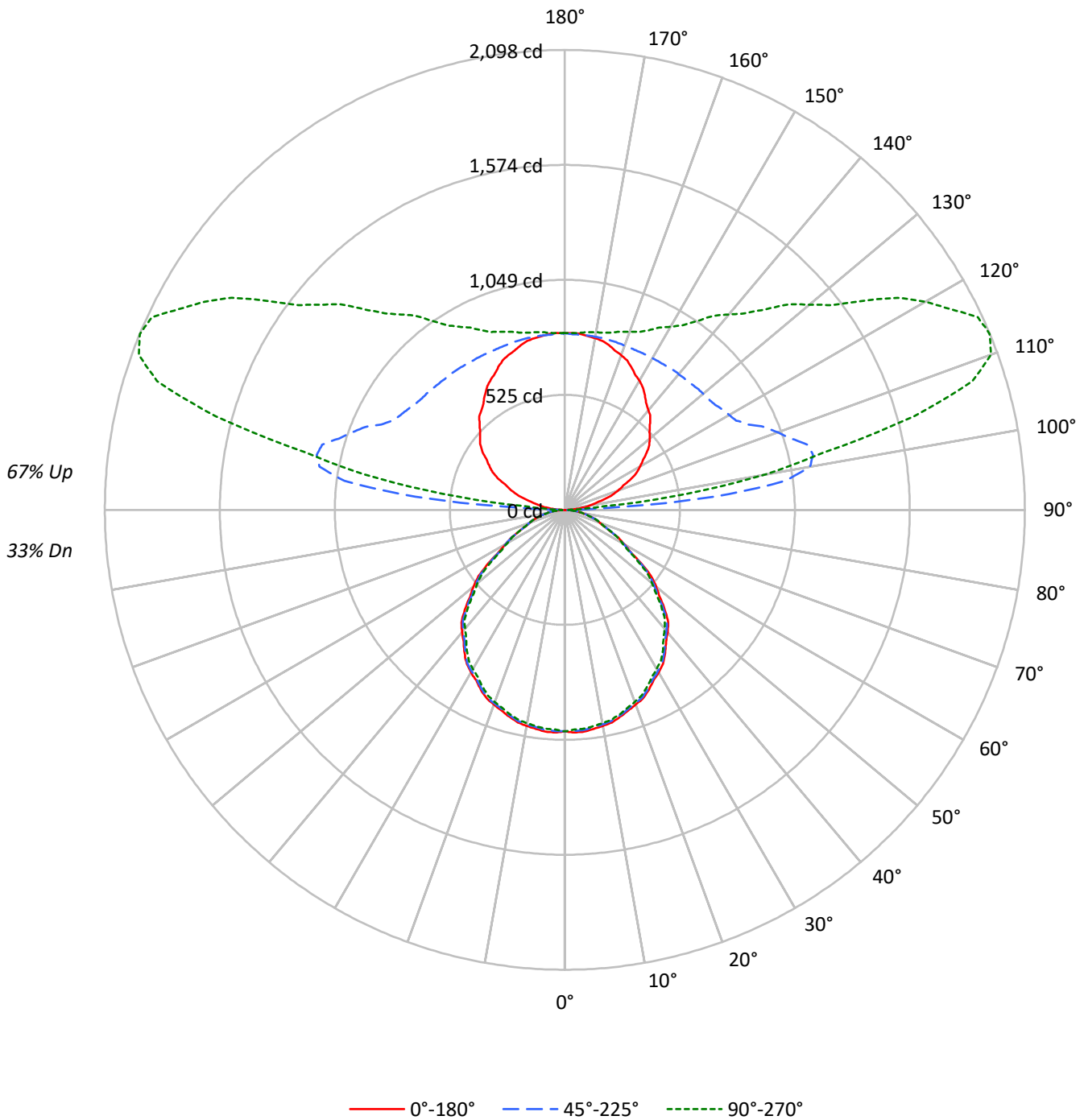
Lumens per Lamp: N/A  
Luminaire Lumens: 7761.9 lumens  
Efficiency: N/A  
Efficacy: 120.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 64.3  
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	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	42	40	32	30	29	24
3	78	69	62	57	70	63	57	52	50	46	43	39	36	34	28	26	25	20
4	72	61	54	48	64	56	49	44	45	40	36	35	31	29	25	23	22	17
5	66	55	47	41	59	50	43	38	40	35	31	31	28	25	23	21	19	15
6	60	49	41	35	54	44	38	33	36	31	27	28	25	22	21	18	17	13
7	56	44	36	31	50	40	33	29	33	28	24	25	22	19	19	17	15	12
8	52	40	32	27	47	36	30	25	30	25	21	23	20	17	17	15	13	11
9	48	36	29	24	43	33	27	22	27	22	19	21	18	15	16	14	12	10
10	45	33	26	22	40	30	24	20	25	20	17	20	16	14	15	12	11	9

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

	0°	45°	90°
0°	6214	6214	6214
5°	6270	6222	6190
10°	6250	6207	6174
15°	6223	6184	6151
20°	6191	6152	6106
25°	6148	6107	6035
30°	6082	6038	5952
35°	5992	5939	5855
40°	5855	5792	5687
45°	5617	5518	5404
50°	5196	5071	4971
55°	4535	4432	4339
60°	3822	3789	3715
65°	3305	3318	3294
70°	3036	3052	3052
75°	2916	2916	2937
80°	2742	2773	2742
85°	2209	2456	2456



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.5	1.2
10°-20°	273.3	3.5
20°-30°	412.3	5.3
30°-40°	491.2	6.3
40°-50°	484.3	6.2
50°-60°	370.1	4.8
60°-70°	229.1	3.0
70°-80°	130.1	1.7
80°-90°	41.2	0.5
90°-100°	377.3	4.9
100°-110°	1041.6	13.4
110°-120°	1074.2	13.8
120°-130°	863.2	11.1
130°-140°	678.4	8.7
140°-150°	520.3	6.7
150°-160°	373.9	4.8
160°-170°	228.7	2.9
170°-180°	77.1	1.0
0°-30°	781.2	10.1
0°-40°	1272.4	16.4
0°-60°	2126.9	27.4
0°-90°	2527.3	32.6
90°-120°	2493.0	32.1
90°-150°	4554.9	58.7
90°-180°	5235.0	67.4
0°-180°	7761.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1010	1010	1010	1010	1010	
5°	1016	1004	1008	1004	1002	96
15°	977	967	971	968	966	276
25°	906	895	900	890	889	417
35°	798	789	791	780	780	498
45°	646	637	634	623	621	495
55°	423	416	413	406	405	379
65°	227	225	228	226	226	230
75°	123	123	123	124	124	130
85°	31	33	35	35	35	36
90°	3	5	10	12	13	5
95°	55	204	684	281	183	59
105°	186	286	1146	1750	1647	197
115°	333	402	923	1827	2078	327
125°	456	519	837	1416	1662	406
135°	549	608	813	1147	1293	425
145°	637	681	803	976	1051	399
155°	718	742	797	876	904	331
165°	777	787	800	832	838	219
175°	806	807	802	813	811	77
180°	806	806	806	806	806	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1010.3	1010.3	1010.3	1010.3	1010.3
2.5°	1016.6	1007.7	1010.3	1008.1	1003.3
5°	1015.5	1004.5	1007.7	1004.2	1002.5
7.5°	1007.7	996.8	1000.0	996.5	995.5
10°	1000.7	990.5	993.8	990.2	988.5
12.5°	993.1	982.2	986.1	981.9	980.2
15°	977.2	967.0	971.1	967.6	965.9
17.5°	959.8	948.9	953.0	949.0	946.8
20°	945.9	935.7	939.8	933.7	932.8
22.5°	930.6	920.4	924.5	916.3	916.1
25°	905.9	894.8	899.8	890.2	889.3
27.5°	876.5	866.2	870.4	860.6	859.6
30°	856.3	846.1	850.2	839.7	838.0
32.5°	833.3	823.8	827.2	816.7	815.7
35°	798.0	788.6	791.0	780.5	779.7
37.5°	757.8	749.3	750.6	739.1	738.3
40°	729.2	720.7	721.4	709.2	708.3
42.5°	697.9	689.4	688.7	676.5	675.6
45°	645.7	637.2	634.4	623.0	621.3
47.5°	586.2	577.7	572.4	563.2	562.0
50°	543.0	534.5	529.9	522.1	519.5
52.5°	496.4	487.8	484.0	476.8	474.3
55°	422.9	416.1	413.3	406.3	404.6
57.5°	353.1	348.5	347.7	340.9	340.2
60°	310.7	308.1	308.0	302.0	302.0
62.5°	274.5	272.6	273.9	269.9	269.2
65°	227.1	225.4	228.0	226.3	226.3
67.5°	189.7	189.7	191.3	190.6	190.6
70°	168.8	168.8	169.7	169.7	169.7
72.5°	150.0	149.3	151.6	151.6	150.9
75°	122.7	122.7	122.7	123.6	123.6
77.5°	95.5	95.7	96.4	96.2	95.5
80°	77.4	78.3	78.3	77.4	77.4
82.5°	59.3	60.2	60.2	60.0	59.3
85°	31.3	33.0	34.8	34.8	34.8
87.5°	9.6	12.8	16.0	16.2	15.8
90°	2.6	5.1	10.3	11.6	12.9
92.5°	23.2	96.3	172.2	62.8	49.0
95°	55.4	204.2	684.5	281.4	183.0
97.5°	91.8	228.7	1013.9	780.6	565.4
100°	118.6	243.4	1135.6	1143.7	929.4
102.5°	144.4	260.1	1159.3	1413.1	1209.9
105°	185.6	286.4	1145.9	1749.5	1647.4
107.5°	229.4	319.2	1082.0	1911.7	1949.0
110°	260.4	341.0	1032.5	1946.6	2067.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	288.2	365.9	986.1	1919.0	2097.5
115°	332.6	401.9	922.9	1827.1	2077.9
117.5°	371.2	440.3	881.4	1697.7	1983.0
120°	397.0	465.1	864.9	1610.1	1897.4
122.5°	421.8	486.8	851.5	1528.3	1800.5
125°	456.3	519.3	836.6	1415.8	1661.6
127.5°	485.7	548.7	827.8	1320.7	1532.6
130°	505.3	568.3	823.7	1262.5	1455.3
132.5°	523.9	583.9	819.6	1213.6	1388.3
135°	549.1	608.4	813.4	1146.7	1292.9
137.5°	577.5	631.4	810.3	1090.5	1215.3
140°	593.0	645.9	808.2	1053.0	1162.7
142.5°	610.5	659.4	806.2	1019.7	1116.3
145°	636.8	680.9	803.1	976.2	1050.6
147.5°	662.0	700.6	800.2	939.5	997.2
150°	680.6	712.1	799.2	917.6	964.2
152.5°	695.0	724.5	798.2	898.8	937.4
155°	718.0	741.9	796.6	875.9	903.6
157.5°	739.1	757.5	796.9	859.2	878.1
160°	751.5	767.9	797.9	849.8	863.6
162.5°	761.8	776.2	798.9	841.5	852.3
165°	777.3	787.4	800.5	831.6	837.9
167.5°	789.1	795.2	801.8	825.5	827.6
170°	795.3	800.4	801.8	822.4	822.4
172.5°	800.5	803.5	801.8	818.2	817.2
175°	805.6	806.9	801.8	813.3	810.8
177.5°	807.7	806.7	801.5	808.7	806.7
180°	805.6	805.6	805.6	805.6	805.6

(END OF REPORT)