

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: P564923

Luminaire Tested: **SQ4-PW1-100U-050D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564923  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2106-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PW1-100U-050D-935-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

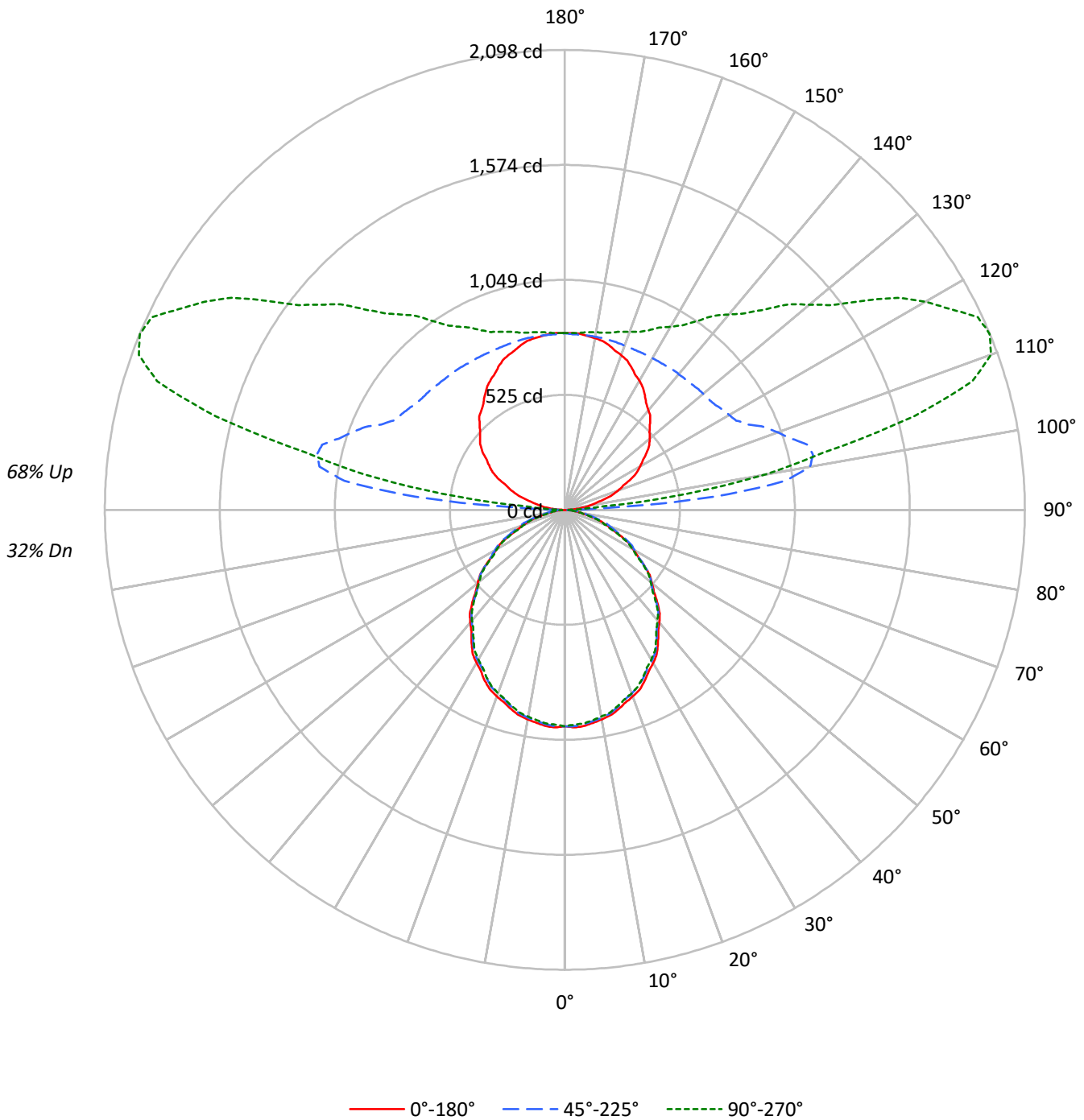
Lumens per Lamp: N/A  
Luminaire Lumens: 7749.2 lumens  
Efficiency: N/A  
Efficacy: 120.5 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Indirect

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	32
1	94	90	86	83	84	81	78	75	64	62	60	49	48	47	35	35	34	27
2	86	78	72	67	77	71	66	62	57	53	50	43	41	39	31	30	29	23
3	78	69	62	56	70	62	56	51	50	46	42	38	35	33	28	26	24	20
4	71	61	53	47	64	55	49	43	44	40	36	34	31	28	25	23	21	17
5	65	54	46	40	59	49	42	37	39	35	31	31	27	24	22	20	18	15
6	60	48	41	35	54	44	37	32	35	30	27	28	24	21	20	18	16	13
7	55	44	36	31	50	40	33	28	32	27	23	25	21	19	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	21	23	19	17	17	15	13	10
9	48	36	29	24	43	33	26	22	27	22	18	21	17	15	16	13	11	9
10	45	33	26	21	40	30	24	20	24	20	17	19	16	13	14	12	10	8

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

	0°	45°	90°
0°	6075	6075	6075
5°	6114	6066	6039
10°	6065	6016	5984
15°	6001	5935	5912
20°	5930	5839	5827
25°	5847	5740	5723
30°	5723	5636	5599
35°	5560	5482	5449
40°	5387	5303	5282
45°	5177	5110	5087
50°	4962	4921	4888
55°	4731	4731	4656
60°	4442	4528	4367
65°	4065	4269	3965
70°	3584	3928	3491
75°	3061	3515	2978
80°	2373	2958	2405
85°	1538	2272	2025



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.0	1.2
10°-20°	262.6	3.4
20°-30°	389.5	5.0
30°-40°	455.7	5.9
40°-50°	453.7	5.9
50°-60°	391.8	5.1
60°-70°	282.0	3.6
70°-80°	147.9	1.9
80°-90°	38.3	0.5
90°-100°	377.3	4.9
100°-110°	1041.6	13.4
110°-120°	1074.2	13.9
120°-130°	863.2	11.1
130°-140°	678.4	8.8
140°-150°	520.3	6.7
150°-160°	373.9	4.8
160°-170°	228.7	3.0
170°-180°	77.1	1.0
0°-30°	745.1	9.6
0°-40°	1200.8	15.5
0°-60°	2046.3	26.4
0°-90°	2514.6	32.4
90°-120°	2493.0	32.2
90°-150°	4554.9	58.8
90°-180°	5235.0	67.6
0°-180°	7749.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	988	988	988	988	988	
5°	990	979	982	980	978	94
15°	942	930	932	930	928	266
25°	862	847	846	841	843	396
35°	740	730	730	723	726	463
45°	595	590	587	586	585	459
55°	441	440	441	435	434	394
65°	279	288	293	282	272	277
75°	129	141	148	138	125	138
85°	22	29	32	30	29	29
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°	987.7	987.7	987.7	987.7	987.7
2.5°	993.2	985.1	987.7	985.5	980.7
5°	990.3	979.2	982.5	979.8	978.1
7.5°	980.2	970.0	972.4	969.5	968.5
10°	971.1	960.9	963.3	959.8	958.1
12.5°	960.7	949.8	952.2	948.7	947.6
15°	942.4	930.5	932.0	930.2	928.5
17.5°	921.2	909.1	909.4	906.6	906.2
20°	905.9	893.1	892.0	888.5	890.2
22.5°	889.2	875.7	874.5	869.7	872.1
25°	861.5	847.0	845.8	840.7	843.2
27.5°	829.5	815.2	815.2	808.0	810.7
30°	805.8	792.2	793.6	785.0	788.4
32.5°	780.7	768.5	769.3	760.6	764.0
35°	740.5	730.3	730.1	723.2	725.7
37.5°	699.5	690.4	689.0	685.0	685.7
40°	670.9	663.3	660.5	657.9	657.9
42.5°	641.0	634.0	631.2	629.3	628.6
45°	595.2	590.1	587.4	585.6	584.8
47.5°	550.0	545.2	542.8	541.6	540.7
50°	518.6	515.2	514.3	511.7	510.8
52.5°	487.3	485.3	484.4	481.0	480.2
55°	441.2	440.3	441.2	435.1	434.2
57.5°	393.2	394.5	397.3	389.1	387.1
60°	361.1	364.5	368.1	358.4	355.0
62.5°	328.4	333.9	338.9	327.8	323.0
65°	279.3	287.8	293.3	281.7	272.4
67.5°	232.0	242.5	249.1	236.6	226.1
70°	199.3	211.2	218.4	206.0	194.1
72.5°	170.7	184.0	189.9	178.1	166.2
75°	128.8	140.7	147.9	138.1	125.3
77.5°	91.4	102.6	108.6	100.0	89.5
80°	67.0	78.9	83.5	76.4	67.9
82.5°	47.5	57.4	60.6	56.3	50.5
85°	21.8	28.6	32.2	30.4	28.7
87.5°	6.1	11.4	15.3	15.6	16.5
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)