

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: P563913

Luminaire Tested: **SQ4-PR1-025U-100D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563913  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PR1-025U-100D-935-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

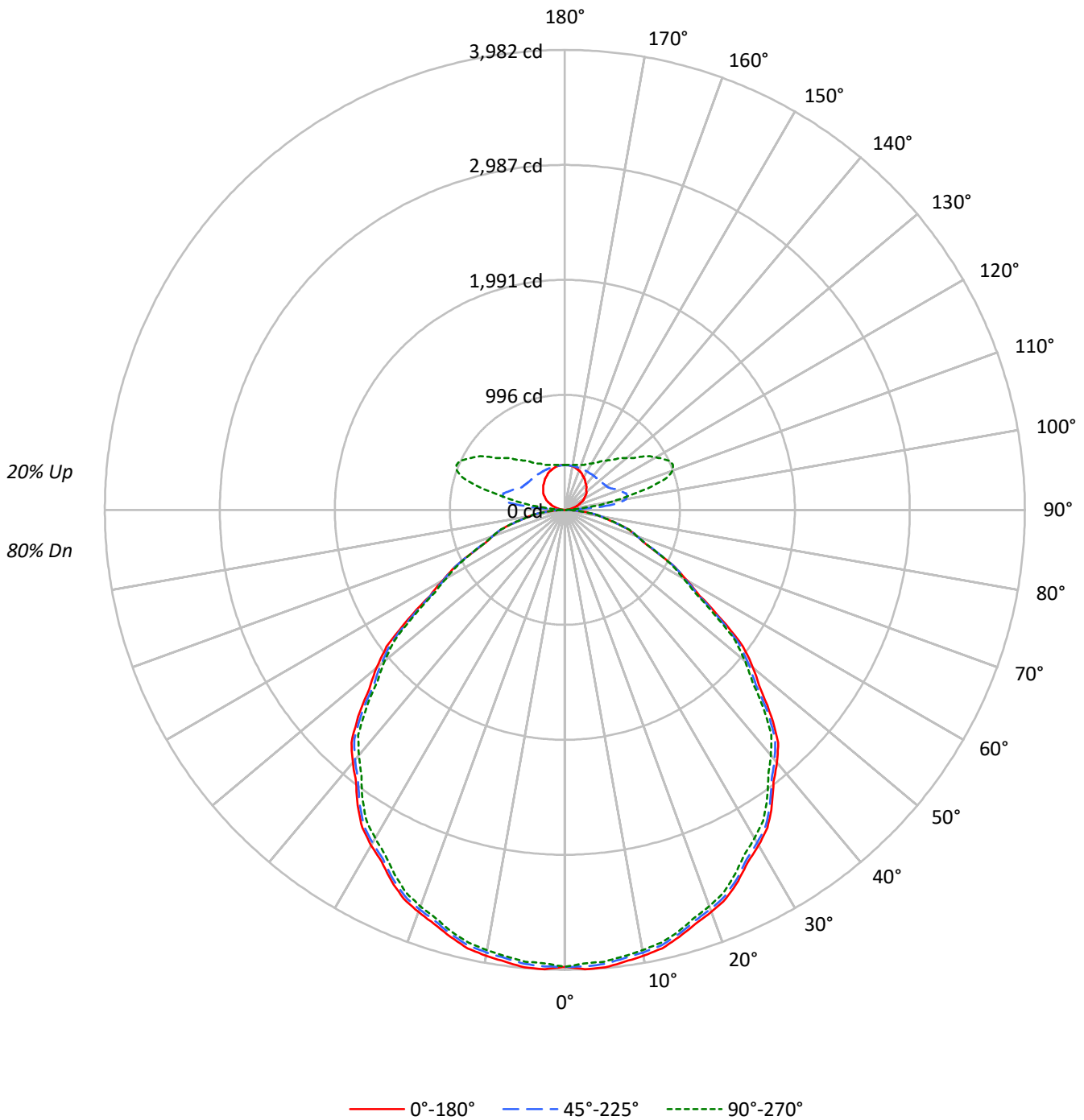
Lumens per Lamp: N/A  
Luminaire Lumens: 12412.0 lumens  
Efficiency: N/A  
Efficacy: 100.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 123.6  
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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	80
1	105	101	97	93	100	96	93	90	88	86	83	81	79	77	74	73	71	68
2	96	88	82	77	92	85	79	74	78	74	70	72	68	65	66	63	61	58
3	88	78	71	65	84	75	68	63	69	64	59	64	59	56	59	55	52	49
4	81	70	61	55	77	67	60	54	62	56	51	57	52	48	53	49	45	43
5	74	62	54	48	71	60	52	47	56	49	44	52	46	42	48	43	40	37
6	69	56	48	42	66	54	47	41	50	44	39	47	41	37	44	39	35	33
7	64	51	43	37	61	49	42	36	46	39	35	43	37	33	40	35	31	29
8	59	47	39	33	57	45	38	32	42	36	31	39	34	30	37	32	28	26
9	55	43	35	30	53	41	34	29	39	32	28	36	31	27	34	29	26	24
10	52	39	32	27	50	38	31	26	36	30	25	34	28	24	31	27	23	21

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

	0°	45°	90°
0°	12169	12169	12169
5°	12279	12184	12121
10°	12240	12155	12091
15°	12186	12111	12045
20°	12125	12047	11958
25°	12040	11959	11820
30°	11910	11825	11656
35°	11734	11631	11465
40°	11466	11343	11138
45°	10999	10806	10584
50°	10176	9931	9735
55°	8881	8680	8498
60°	7484	7421	7275
65°	6474	6498	6449
70°	5945	5976	5976
75°	5711	5711	5751
80°	5372	5432	5372
85°	4330	4810	4810



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	374.2	3.0
10°-20°	1070.6	8.6
20°-30°	1614.8	13.0
30°-40°	1924.1	15.5
40°-50°	1897.0	15.3
50°-60°	1449.7	11.7
60°-70°	897.2	7.2
70°-80°	509.6	4.1
80°-90°	157.1	1.3
90°-100°	189.3	1.5
100°-110°	497.7	4.0
110°-120°	516.1	4.2
120°-130°	414.0	3.3
130°-140°	324.8	2.6
140°-150°	249.3	2.0
150°-160°	179.6	1.4
160°-170°	109.9	0.9
170°-180°	37.1	0.3
0°-30°	3059.6	24.7
0°-40°	4983.7	40.2
0°-60°	8330.4	67.1
0°-90°	9894.2	79.7
90°-120°	1203.2	9.7
90°-150°	2191.3	17.7
90°-180°	2518.0	20.3
0°-180°	12412.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3957	3957	3957	3957	3957	
5°	3978	3934	3947	3933	3926	377
15°	3828	3788	3804	3790	3783	1080
25°	3548	3505	3524	3487	3483	1633
35°	3125	3089	3098	3057	3054	1951
45°	2529	2496	2485	2440	2434	1937
55°	1656	1630	1619	1592	1585	1484
65°	890	883	893	886	886	901
75°	481	481	481	484	484	508
85°	123	129	136	136	136	143
90°	2	7	20	10	10	7
95°	25	98	326	168	114	28
105°	90	136	550	835	779	95
115°	159	194	441	879	1004	157
125°	222	248	401	678	799	197
135°	264	291	388	547	620	204
145°	306	326	384	466	503	192
155°	346	356	384	421	433	159
165°	374	378	384	398	403	105
175°	388	388	386	391	391	37
180°	388	388	388	388	388	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3957.0	3957.0	3957.0	3957.0	3957.0
2.5°	3981.6	3946.9	3957.0	3948.4	3929.8
5°	3977.5	3934.2	3946.8	3933.0	3926.4
7.5°	3946.8	3904.1	3916.8	3903.1	3899.1
10°	3919.5	3879.5	3892.3	3878.5	3871.8
12.5°	3889.5	3846.9	3862.3	3845.8	3839.1
15°	3827.5	3787.5	3803.7	3789.9	3783.2
17.5°	3759.3	3716.7	3732.8	3716.9	3708.2
20°	3704.8	3664.8	3681.0	3657.0	3653.7
22.5°	3644.8	3604.8	3621.0	3588.9	3588.2
25°	3548.0	3504.7	3524.2	3486.6	3483.3
27.5°	3432.8	3392.8	3409.0	3370.7	3366.7
30°	3353.8	3313.8	3329.9	3288.9	3282.2
32.5°	3263.8	3226.5	3239.9	3198.9	3194.9
35°	3125.4	3088.7	3098.1	3057.2	3053.8
37.5°	2967.9	2934.6	2940.0	2894.9	2891.6
40°	2856.1	2822.8	2825.5	2777.7	2774.3
42.5°	2733.5	2700.1	2697.3	2649.5	2646.2
45°	2529.0	2495.6	2484.6	2440.2	2433.5
47.5°	2295.8	2262.5	2242.0	2205.7	2201.1
50°	2126.8	2093.4	2075.6	2044.7	2034.8
52.5°	1944.1	1910.8	1895.7	1867.5	1857.5
55°	1656.4	1629.8	1618.9	1591.5	1584.9
57.5°	1383.1	1365.1	1362.0	1335.3	1332.6
60°	1216.8	1206.8	1206.5	1182.7	1182.7
62.5°	1075.0	1067.6	1072.9	1057.2	1054.5
65°	889.6	882.9	893.0	886.2	886.2
67.5°	743.0	743.0	749.1	746.4	746.4
70°	661.2	661.2	664.6	664.6	664.6
72.5°	587.6	584.9	593.7	593.7	591.0
75°	480.6	480.6	480.6	484.0	484.0
77.5°	374.2	374.9	377.6	376.9	374.2
80°	303.3	306.7	306.7	303.3	303.3
82.5°	232.4	235.8	235.9	235.1	232.4
85°	122.7	129.4	136.3	136.3	136.3
87.5°	35.9	47.6	58.5	56.5	53.8
90°	2.5	7.4	19.9	10.0	10.0
92.5°	10.5	50.4	111.6	49.4	31.9
95°	24.9	97.9	326.2	168.1	114.5
97.5°	43.3	107.6	488.1	388.1	285.9
100°	57.3	115.7	537.9	545.1	423.3
102.5°	69.2	123.8	551.8	678.9	574.7
105°	89.6	135.9	550.3	835.4	779.4
107.5°	110.6	153.4	518.9	916.7	930.3
110°	124.5	163.5	493.0	937.6	996.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	138.5	175.5	469.1	924.4	1014.0
115°	159.4	193.5	440.8	879.3	1003.5
117.5°	179.8	211.0	421.3	816.9	954.7
120°	191.7	221.0	413.4	775.0	908.9
122.5°	203.7	232.9	407.4	733.1	865.1
125°	221.6	248.4	400.9	677.6	799.3
127.5°	236.1	263.3	395.4	632.8	735.6
130°	244.0	273.2	393.4	604.8	699.7
132.5°	252.0	281.2	391.4	580.6	665.9
135°	264.0	290.7	388.5	547.0	620.0
137.5°	276.4	302.7	388.0	521.8	581.7
140°	286.4	310.7	386.0	501.8	557.8
142.5°	294.3	316.7	386.0	487.7	535.9
145°	306.3	325.8	383.5	466.5	503.0
147.5°	318.2	337.2	383.5	448.9	479.1
150°	326.2	343.3	383.5	438.8	463.2
152.5°	334.2	347.3	383.5	430.7	449.2
155°	346.1	355.9	383.5	421.1	433.3
157.5°	355.1	364.3	383.5	412.6	421.3
160°	361.1	368.4	383.5	408.5	413.4
162.5°	367.0	372.4	383.5	404.5	409.4
165°	373.5	378.4	383.5	398.5	403.4
167.5°	379.5	381.9	386.0	396.0	397.9
170°	383.5	385.9	386.0	395.9	395.9
172.5°	385.5	386.0	386.0	393.9	391.9
175°	388.5	388.5	386.0	390.9	390.9
177.5°	388.5	388.5	386.5	390.4	388.5
180°	388.5	388.5	388.5	388.5	388.5

(END OF REPORT)