

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: P563867

Luminaire Tested: **SQ4-PR1-025U-050D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563867  
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-050D-935-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

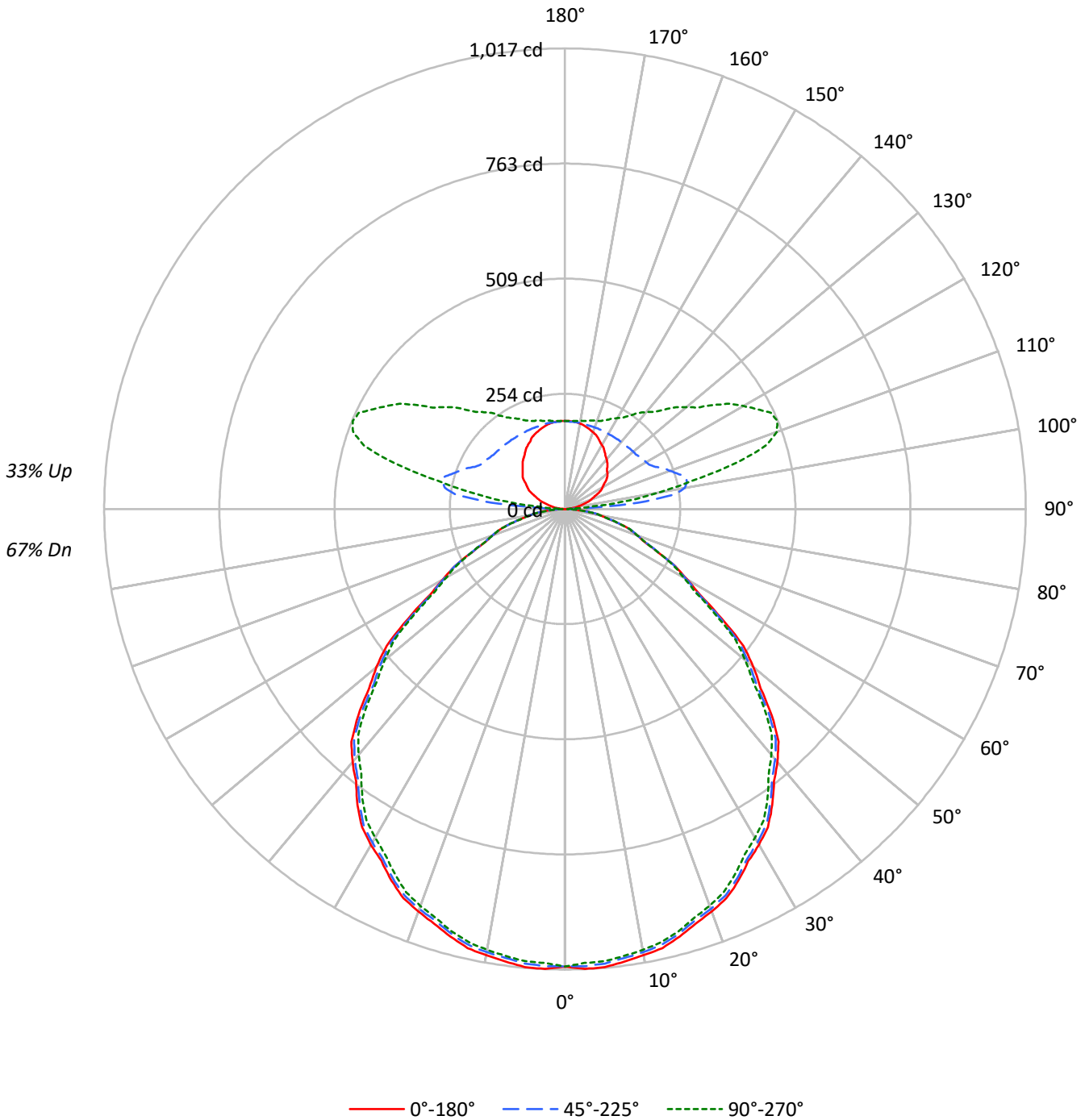
Lumens per Lamp: N/A  
Luminaire Lumens: 3785.6 lumens  
Efficiency: N/A  
Efficacy: 108.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 34.9  
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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	71	71	71	67
1	102	98	94	90	96	92	89	86	82	79	77	72	71	69	64	62	61	57
2	93	86	80	74	88	81	76	71	72	68	64	64	61	58	57	54	52	48
3	85	76	68	63	80	72	65	60	64	59	55	57	53	50	51	47	45	41
4	78	67	59	53	73	64	57	51	57	51	47	51	47	43	45	42	39	36
5	72	60	52	46	68	57	50	44	51	45	41	46	41	37	41	37	34	31
6	66	54	46	40	62	52	44	39	46	40	36	42	37	33	37	33	30	28
7	62	49	41	35	58	47	39	34	42	36	32	38	33	29	34	30	27	24
8	57	45	37	31	54	43	35	30	39	33	28	35	30	26	31	27	24	22
9	53	41	33	28	50	39	32	27	35	30	25	32	27	24	29	25	22	20
10	50	38	30	25	47	36	29	25	33	27	23	30	25	21	27	23	20	18

**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	2.5
10°-20°	273.3	7.2
20°-30°	412.3	10.9
30°-40°	491.2	13.0
40°-50°	484.3	12.8
50°-60°	370.1	9.8
60°-70°	229.1	6.1
70°-80°	130.1	3.4
80°-90°	40.6	1.1
90°-100°	94.7	2.5
100°-110°	248.9	6.6
110°-120°	258.1	6.8
120°-130°	207.0	5.5
130°-140°	162.4	4.3
140°-150°	124.6	3.3
150°-160°	89.8	2.4
160°-170°	54.9	1.5
170°-180°	18.6	0.5
0°-30°	781.2	20.6
0°-40°	1272.4	33.6
0°-60°	2126.9	56.2
0°-90°	2526.6	66.7
90°-120°	601.6	15.9
90°-150°	1095.7	28.9
90°-180°	1259.0	33.3
0°-180°	3785.6	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°	1	4	10	5	5	2
95°	12	49	163	84	57	14
105°	45	68	275	418	390	48
115°	80	97	220	440	502	79
125°	111	124	200	339	400	98
135°	132	145	194	274	310	102
145°	153	163	192	233	252	96
155°	173	178	192	211	217	80
165°	187	189	192	199	202	53
175°	194	194	193	196	196	18
180°	194	194	194	194	194	



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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°	9.3	12.5	15.9	14.9	14.2
90°	1.2	3.7	10.0	5.0	5.0
92.5°	5.2	25.2	55.8	24.7	15.9
95°	12.5	49.0	163.1	84.1	57.3
97.5°	21.7	53.8	244.0	194.1	142.9
100°	28.6	57.9	268.9	272.5	211.7
102.5°	34.6	61.9	275.9	339.5	287.4
105°	44.8	68.0	275.2	417.7	389.7
107.5°	55.3	76.7	259.5	458.3	465.2
110°	62.3	81.7	246.5	468.8	498.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	69.2	87.7	234.6	462.2	507.0
115°	79.7	96.7	220.4	439.7	501.8
117.5°	89.9	105.5	210.7	408.5	477.4
120°	95.9	110.5	206.7	387.5	454.4
122.5°	101.8	116.5	203.7	366.6	432.5
125°	110.8	124.2	200.5	338.8	399.7
127.5°	118.0	131.7	197.7	316.4	367.8
130°	122.0	136.6	196.7	302.4	349.9
132.5°	126.0	140.6	195.7	290.3	332.9
135°	132.0	145.4	194.2	273.5	310.0
137.5°	138.2	151.3	194.0	260.9	290.8
140°	143.2	155.4	193.0	250.9	278.9
142.5°	147.2	158.4	193.0	243.8	267.9
145°	153.1	162.9	191.7	233.2	251.5
147.5°	159.1	168.6	191.7	224.5	239.6
150°	163.1	171.6	191.7	219.4	231.6
152.5°	167.1	173.7	191.7	215.4	224.6
155°	173.1	177.9	191.7	210.6	216.6
157.5°	177.5	182.2	191.7	206.3	210.7
160°	180.5	184.2	191.7	204.2	206.7
162.5°	183.5	186.2	191.7	202.3	204.7
165°	186.8	189.2	191.7	199.3	201.7
167.5°	189.7	191.0	193.0	198.0	199.0
170°	191.7	193.0	193.0	198.0	198.0
172.5°	192.7	193.0	193.0	196.9	196.0
175°	194.2	194.2	193.0	195.5	195.5
177.5°	194.2	194.2	193.2	195.2	194.2
180°	194.2	194.2	194.2	194.2	194.2

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