

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: P563870

Luminaire Tested: **SQ4-PR1-025U-050D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563870  
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-940-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

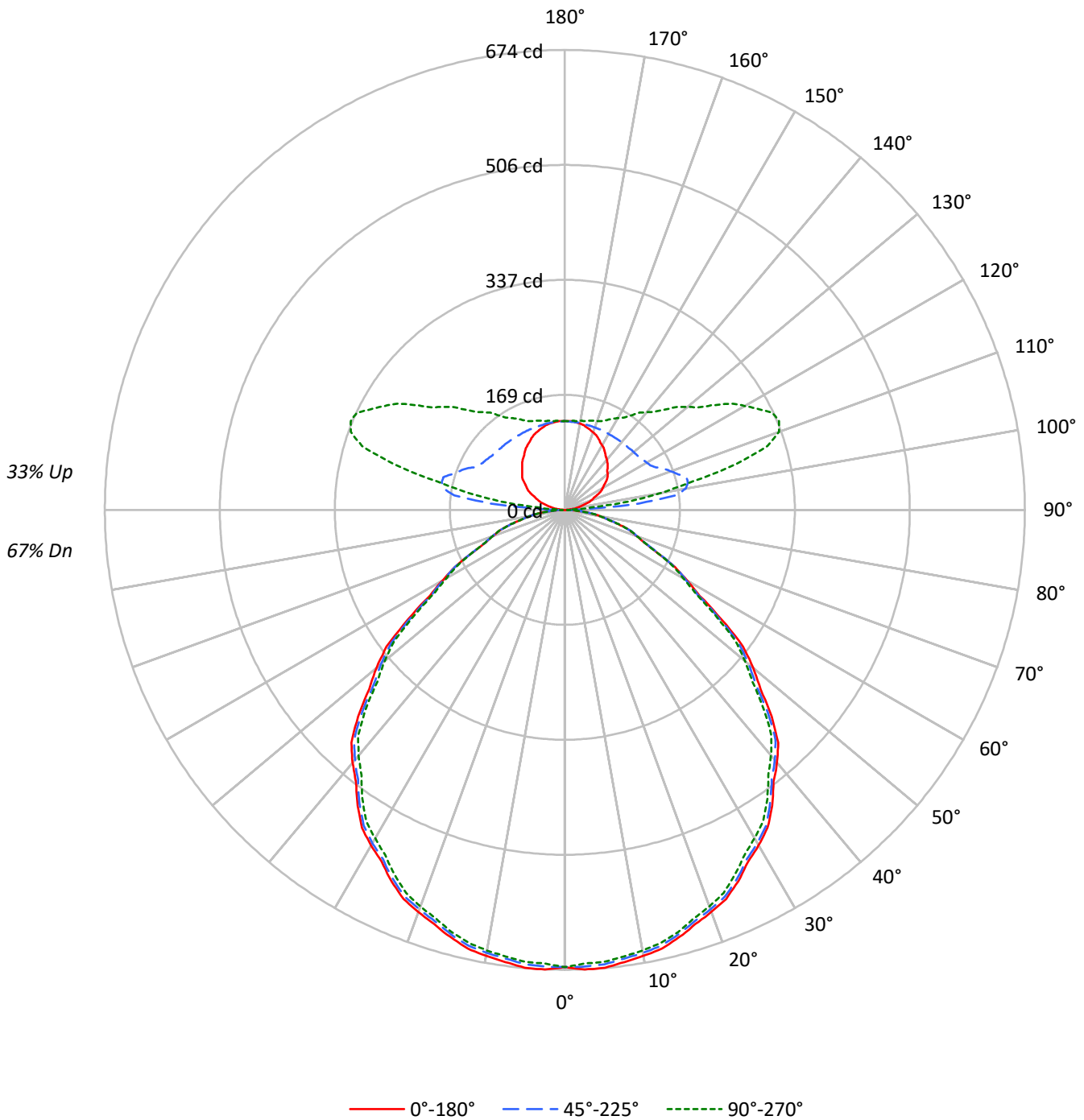
Lumens per Lamp: N/A  
Luminaire Lumens: 2519.4 lumens  
Efficiency: N/A  
Efficacy: 114.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 22.1  
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	81	81	81	71	71	71	67
1	102	98	94	90	96	92	89	86	82	79	77	72	70	69	64	62	61	57
2	93	86	80	74	87	81	76	71	72	68	64	64	61	58	56	54	52	48
3	85	76	68	62	80	72	65	60	64	59	55	57	53	50	50	47	45	41
4	78	67	59	53	73	64	57	51	57	51	47	51	46	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	51	44	39	46	40	36	42	37	33	37	33	30	27
7	61	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°	6182	6182	6182
5°	6239	6190	6158
10°	6219	6175	6143
15°	6191	6152	6120
20°	6160	6121	6075
25°	6116	6075	6005
30°	6050	6008	5921
35°	5962	5910	5825
40°	5826	5763	5658
45°	5588	5491	5377
50°	5170	5045	4946
55°	4512	4411	4317
60°	3803	3770	3696
65°	3288	3301	3277
70°	3021	3037	3037
75°	2902	2902	2923
80°	2731	2758	2731
85°	2202	2445	2445



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.4	2.5
10°-20°	181.3	7.2
20°-30°	273.5	10.9
30°-40°	325.8	12.9
40°-50°	321.2	12.8
50°-60°	245.5	9.7
60°-70°	151.9	6.0
70°-80°	86.3	3.4
80°-90°	26.9	1.1
90°-100°	63.4	2.5
100°-110°	166.7	6.6
110°-120°	172.9	6.9
120°-130°	138.7	5.5
130°-140°	108.8	4.3
140°-150°	83.5	3.3
150°-160°	60.2	2.4
160°-170°	36.8	1.5
170°-180°	12.4	0.5
0°-30°	518.1	20.6
0°-40°	844.0	33.5
0°-60°	1410.7	56.0
0°-90°	1675.9	66.5
90°-120°	403.0	16.0
90°-150°	734.0	29.1
90°-180°	843.0	33.5
0°-180°	2519.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	670	670	670	670	670	
5°	674	666	668	666	665	64
15°	648	641	644	642	641	183
25°	601	594	597	590	590	276
35°	529	523	525	518	517	330
45°	428	423	421	413	412	328
55°	280	276	274	270	268	251
65°	151	150	151	150	150	153
75°	81	81	81	82	82	86
85°	21	22	23	23	23	24
90°	1	2	7	3	3	2
95°	8	33	109	56	38	9
105°	30	46	184	280	261	32
115°	53	65	148	295	336	53
125°	74	83	134	227	268	66
135°	88	97	130	183	208	68
145°	103	109	128	156	168	64
155°	116	119	128	141	145	53
165°	125	127	128	134	135	35
175°	130	130	129	131	131	12
180°	130	130	130	130	130	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	670.1	670.1	670.1	670.1	670.1
2.5°	674.3	668.4	670.1	668.7	665.5
5°	673.6	666.2	668.4	666.0	664.9
7.5°	668.4	661.2	663.3	661.0	660.3
10°	663.8	657.0	659.1	656.8	655.7
12.5°	658.7	651.5	654.1	651.3	650.1
15°	648.2	641.4	644.1	641.8	640.7
17.5°	636.6	629.4	632.1	629.4	628.0
20°	627.4	620.6	623.4	619.3	618.7
22.5°	617.2	610.5	613.2	607.8	607.7
25°	600.8	593.5	596.8	590.4	589.9
27.5°	581.3	574.6	577.3	570.8	570.1
30°	567.9	561.2	563.9	557.0	555.8
32.5°	552.7	546.4	548.7	541.7	541.1
35°	529.3	523.1	524.7	517.7	517.2
37.5°	502.6	497.0	497.9	490.2	489.7
40°	483.7	478.0	478.5	470.4	469.8
42.5°	462.9	457.3	456.8	448.7	448.1
45°	428.3	422.6	420.8	413.2	412.1
47.5°	388.8	383.1	379.7	373.5	372.7
50°	360.2	354.5	351.5	346.3	344.6
52.5°	329.2	323.6	321.0	316.3	314.6
55°	280.5	276.0	274.2	269.5	268.4
57.5°	234.2	231.2	230.6	226.1	225.7
60°	206.1	204.4	204.3	200.3	200.3
62.5°	182.0	180.8	181.7	179.0	178.6
65°	150.6	149.5	151.2	150.1	150.1
67.5°	125.8	125.8	126.9	126.4	126.4
70°	112.0	112.0	112.6	112.6	112.6
72.5°	99.5	99.1	100.5	100.5	100.1
75°	81.4	81.4	81.4	82.0	82.0
77.5°	63.4	63.5	64.0	63.8	63.4
80°	51.4	51.9	51.9	51.4	51.4
82.5°	39.4	39.9	39.9	39.8	39.4
85°	20.8	21.9	23.1	23.1	23.1
87.5°	6.2	8.3	10.6	9.9	9.4
90°	0.8	2.5	6.7	3.3	3.3
92.5°	3.5	16.9	37.4	16.5	10.7
95°	8.3	32.8	109.3	56.3	38.4
97.5°	14.5	36.0	163.5	130.0	95.8
100°	19.2	38.8	180.2	182.6	141.8
102.5°	23.2	41.5	184.8	227.4	192.5
105°	30.0	45.5	184.3	279.8	261.1
107.5°	37.0	51.4	173.8	307.1	311.6
110°	41.7	54.8	165.2	314.1	333.7

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	46.4	58.8	157.2	309.6	339.7
115°	53.4	64.8	147.6	294.6	336.2
117.5°	60.2	70.7	141.1	273.6	319.8
120°	64.2	74.0	138.5	259.6	304.5
122.5°	68.2	78.0	136.5	245.6	289.8
125°	74.2	83.2	134.3	227.0	267.8
127.5°	79.1	88.2	132.5	212.0	246.4
130°	81.7	91.5	131.8	202.6	234.4
132.5°	84.4	94.2	131.1	194.5	223.0
135°	88.4	97.4	130.1	183.2	207.7
137.5°	92.6	101.4	130.0	174.8	194.9
140°	95.9	104.1	129.3	168.1	186.8
142.5°	98.6	106.1	129.3	163.4	179.5
145°	102.6	109.1	128.5	156.3	168.5
147.5°	106.6	113.0	128.5	150.4	160.5
150°	109.3	115.0	128.5	147.0	155.1
152.5°	111.9	116.3	128.5	144.3	150.5
155°	115.9	119.2	128.5	141.1	145.1
157.5°	118.9	122.0	128.5	138.2	141.1
160°	120.9	123.4	128.5	136.8	138.5
162.5°	123.0	124.7	128.5	135.5	137.1
165°	125.1	126.8	128.5	133.5	135.1
167.5°	127.1	127.9	129.3	132.6	133.3
170°	128.5	129.3	129.3	132.6	132.6
172.5°	129.1	129.3	129.3	131.9	131.3
175°	130.1	130.1	129.3	131.0	131.0
177.5°	130.1	130.1	129.5	130.8	130.1
180°	130.1	130.1	130.1	130.1	130.1

(END OF REPORT)