

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: P563198

Luminaire Tested: **SQ4-PP3-025U-050D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563198  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-025U-050D-940-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

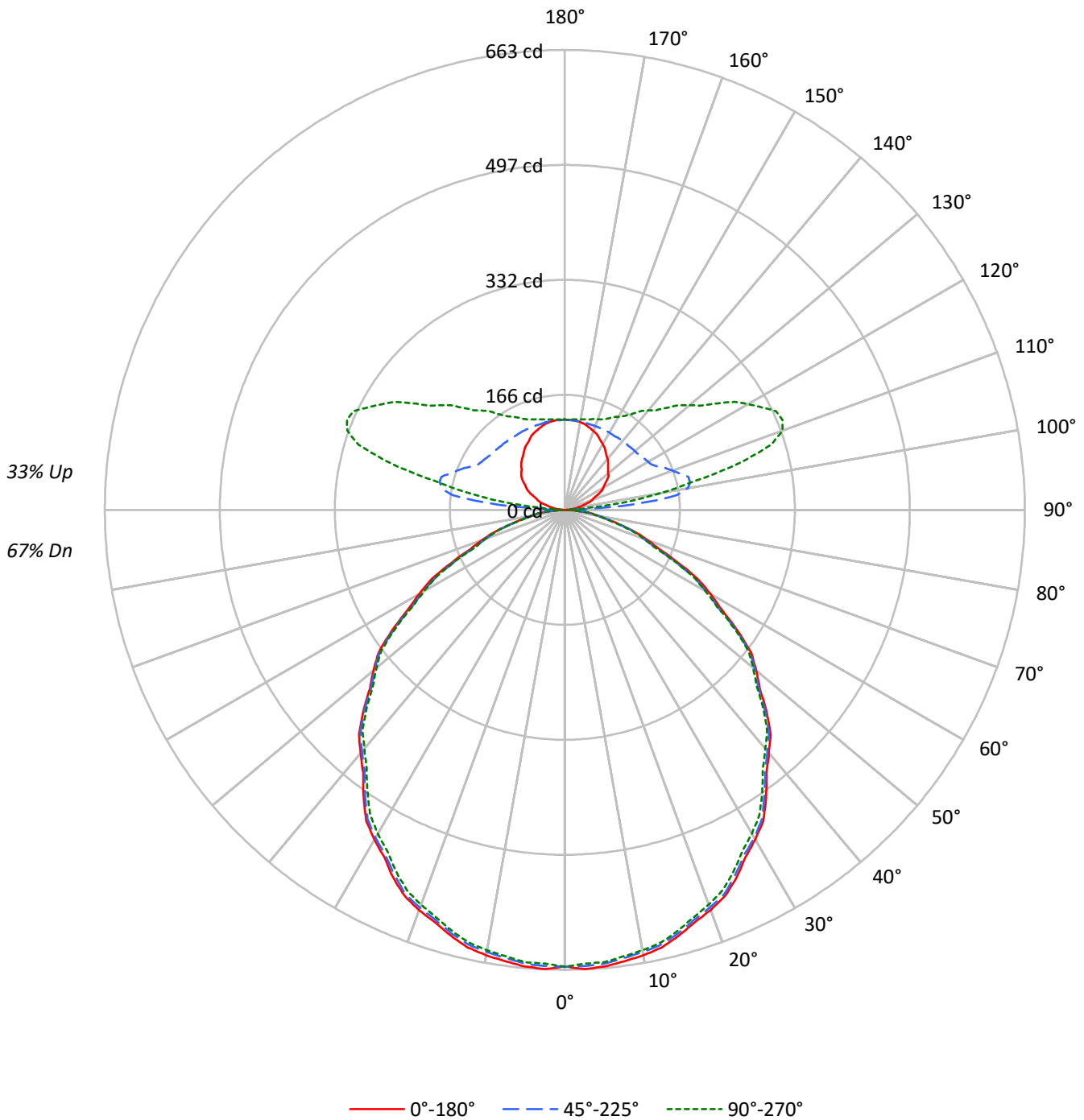
Lumens per Lamp: N/A  
Luminaire Lumens: 2529.3 lumens  
Efficiency: N/A  
Efficacy: 114.4 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

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	82	82	82	71	71	71	67
1	102	97	94	90	96	92	89	86	82	79	77	72	70	69	64	62	61	57
2	93	85	79	74	87	81	75	71	72	68	64	64	61	58	56	54	52	48
3	85	75	68	62	80	71	65	59	64	58	54	57	52	49	50	47	44	41
4	78	67	59	53	73	63	56	50	57	51	46	51	46	42	45	41	38	35
5	72	60	51	45	67	57	49	44	51	45	40	45	41	37	40	37	33	31
6	66	54	45	39	62	51	43	38	46	40	35	41	36	32	37	33	29	27
7	61	49	40	35	57	46	39	33	42	36	31	37	32	29	34	29	26	24
8	57	44	36	31	53	42	35	30	38	32	28	34	29	26	31	27	24	21
9	53	40	33	28	50	39	31	27	35	29	25	32	27	23	28	24	21	19
10	50	37	30	25	47	35	29	24	32	26	22	29	24	21	26	22	19	17

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

	0°	45°	90°
0°	6075	6075	6075
5°	6119	6082	6061
10°	6109	6065	6039
15°	6068	6036	6002
20°	6028	5994	5949
25°	5956	5916	5857
30°	5847	5816	5742
35°	5694	5654	5583
40°	5511	5476	5414
45°	5361	5324	5270
50°	5169	5136	5085
55°	4901	4835	4798
60°	4462	4334	4312
65°	3930	3766	3755
70°	3394	3253	3253
75°	2920	2880	2838
80°	2577	2603	2545
85°	2011	2202	2202



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.3	2.5
10°-20°	177.8	7.0
20°-30°	266.3	10.5
30°-40°	312.3	12.3
40°-50°	313.3	12.4
50°-60°	267.3	10.6
60°-70°	174.3	6.9
70°-80°	87.5	3.5
80°-90°	24.9	1.0
90°-100°	63.4	2.5
100°-110°	166.7	6.6
110°-120°	172.9	6.8
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°	506.3	20.0
0°-40°	818.6	32.4
0°-60°	1399.2	55.3
0°-90°	1685.9	66.7
90°-120°	403.0	15.9
90°-150°	734.0	29.0
90°-180°	843.0	33.3
0°-180°	2529.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	658	658	658	658	658	
5°	661	654	657	654	654	63
15°	635	629	632	630	628	179
25°	585	578	581	576	575	269
35°	506	500	502	496	496	316
45°	411	408	408	404	404	316
55°	305	304	301	299	298	271
65°	180	177	172	171	172	180
75°	82	82	81	80	80	89
85°	19	21	21	21	21	22
90°	1	2	7	3	3	1
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°	658.4	658.4	658.4	658.4	658.4
2.5°	662.6	657.1	658.4	657.4	654.7
5°	660.7	654.5	656.7	654.4	654.4
7.5°	656.2	649.4	651.6	649.3	649.2
10°	652.1	645.3	647.4	645.1	644.6
12.5°	646.1	639.3	641.9	639.1	639.0
15°	635.3	629.1	631.9	629.5	628.4
17.5°	623.2	616.4	619.7	616.5	616.1
20°	614.0	607.2	610.5	605.9	605.9
22.5°	602.9	596.1	599.9	593.9	593.9
25°	585.1	578.4	581.1	575.9	575.3
27.5°	564.0	557.3	560.2	554.3	554.2
30°	548.8	542.6	545.9	539.5	539.0
32.5°	532.2	526.4	528.8	522.4	521.9
35°	505.5	500.4	502.0	496.2	495.7
37.5°	477.4	472.3	474.1	469.1	468.9
40°	457.6	454.2	454.7	450.6	449.5
42.5°	439.1	435.3	435.8	431.7	431.5
45°	410.9	408.0	408.0	403.9	403.9
47.5°	380.9	378.7	378.1	374.7	374.6
50°	360.1	358.4	357.8	354.9	354.3
52.5°	338.4	337.6	335.6	333.2	333.1
55°	304.7	303.6	300.6	298.9	298.3
57.5°	268.1	265.8	262.6	260.0	260.5
60°	241.8	239.5	234.9	233.7	233.7
62.5°	216.4	213.7	209.0	207.4	208.3
65°	180.0	176.7	172.5	171.4	172.0
67.5°	147.0	144.0	139.5	139.5	139.1
70°	125.8	124.1	120.6	120.6	120.6
72.5°	106.9	106.1	103.5	103.5	103.1
75°	81.9	81.9	80.8	80.2	79.6
77.5°	61.4	61.6	61.1	60.5	59.4
80°	48.5	49.6	49.0	48.5	47.9
82.5°	36.5	37.6	37.5	36.5	36.4
85°	19.0	20.7	20.8	20.8	20.8
87.5°	5.2	7.4	8.7	8.1	8.5
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)