

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: P562527

Luminaire Tested: **SQ4-PC3-025U-050D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562527  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2106-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PC3-025U-050D-940-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

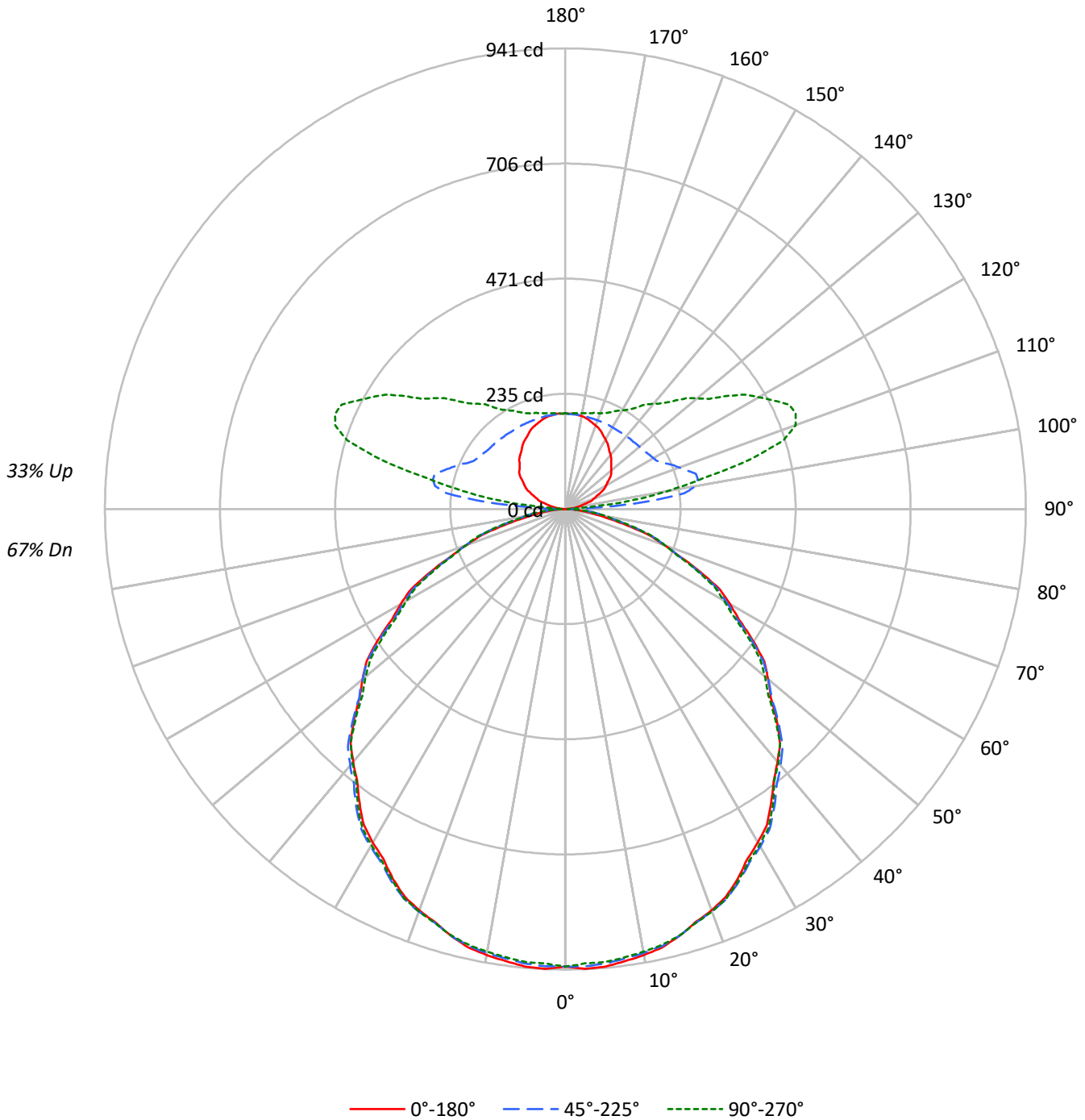
Lumens per Lamp: N/A  
Luminaire Lumens: 3818.1 lumens  
Efficiency: N/A  
Efficacy: 109.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Direct

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	72	72	72	67
1	102	97	93	90	96	92	88	85	82	79	76	72	70	68	63	62	61	56
2	93	85	79	73	87	80	75	70	71	67	63	63	60	57	56	53	51	47
3	84	75	67	61	79	71	64	58	63	58	53	56	52	48	49	46	43	40
4	77	66	58	52	73	63	55	50	56	50	45	50	45	41	44	40	37	34
5	71	59	51	44	67	56	48	43	50	44	39	45	40	36	40	36	33	30
6	65	53	45	39	61	50	43	37	45	39	34	40	35	31	36	32	29	26
7	61	48	40	34	57	46	38	33	41	35	30	37	32	28	33	29	25	23
8	56	44	36	30	53	41	34	29	37	31	27	34	29	25	30	26	23	21
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	28	24	21	18
10	49	37	29	24	46	35	28	23	32	26	22	29	24	20	26	22	19	17

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

	0°	45°	90°
0°	5751	5751	5751
5°	5795	5757	5736
10°	5780	5754	5737
15°	5750	5750	5744
20°	5712	5729	5729
25°	5658	5699	5682
30°	5590	5657	5633
35°	5506	5591	5552
40°	5415	5492	5436
45°	5317	5355	5271
50°	5178	5178	5095
55°	5013	4949	4874
60°	4772	4676	4601
65°	4410	4323	4285
70°	3861	3892	3877
75°	3106	3436	3458
80°	2207	2912	2943
85°	1341	2442	2442



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.5	2.3
10°-20°	253.9	6.7
20°-30°	384.6	10.1
30°-40°	461.0	12.1
40°-50°	470.1	12.3
50°-60°	410.4	10.7
60°-70°	293.8	7.7
70°-80°	151.3	4.0
80°-90°	39.3	1.0
90°-100°	95.1	2.5
100°-110°	250.1	6.6
110°-120°	259.3	6.8
120°-130°	208.0	5.4
130°-140°	163.2	4.3
140°-150°	125.3	3.3
150°-160°	90.2	2.4
160°-170°	55.2	1.4
170°-180°	18.6	0.5
0°-30°	727.0	19.0
0°-40°	1188.1	31.1
0°-60°	2068.5	54.2
0°-90°	2553.0	66.9
90°-120°	604.6	15.8
90°-150°	1101.1	28.8
90°-180°	1265.0	33.1
0°-180°	3818.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	935	935	935	935	935	
5°	938	929	932	930	929	89
15°	903	895	903	903	902	255
25°	834	828	840	837	837	384
35°	733	732	745	739	739	459
45°	611	610	616	608	606	470
55°	468	462	462	454	454	417
65°	303	296	297	294	294	300
75°	131	137	145	146	146	141
85°	19	29	35	36	35	26
90°	1	4	10	5	5	2
95°	12	49	164	84	58	14
105°	45	68	276	420	392	48
115°	80	97	222	442	504	79
125°	111	125	201	340	402	99
135°	133	146	195	275	312	103
145°	154	164	193	234	253	96
155°	174	179	193	212	218	80
165°	188	190	193	200	203	53
175°	195	195	194	196	196	19
180°	195	195	195	195	195	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	935.0	935.0	935.0	935.0	935.0
2.5°	940.6	932.5	935.0	932.9	929.5
5°	938.5	929.2	932.4	929.8	929.0
7.5°	931.7	922.4	926.7	925.0	924.1
10°	925.5	916.2	921.2	919.4	918.6
12.5°	917.2	908.6	914.3	912.5	912.4
15°	903.0	895.4	903.0	903.0	902.1
17.5°	885.2	878.2	886.4	886.9	886.4
20°	872.7	865.1	875.3	874.5	875.3
22.5°	857.5	851.2	862.1	859.9	860.8
25°	833.7	827.8	839.8	837.2	837.2
27.5°	805.7	801.5	814.5	811.8	811.8
30°	787.0	782.8	796.5	793.1	793.1
32.5°	766.2	763.3	776.4	772.3	772.3
35°	733.3	731.6	744.6	739.4	739.4
37.5°	699.4	697.9	709.6	703.3	701.3
40°	674.4	673.6	684.0	677.0	677.0
42.5°	649.5	648.7	657.6	649.3	649.3
45°	611.2	609.5	615.6	607.7	606.0
47.5°	569.5	567.8	571.6	563.1	562.2
50°	541.1	539.4	541.1	533.3	532.5
52.5°	512.0	509.0	509.2	501.5	501.3
55°	467.5	461.6	461.5	454.5	454.5
57.5°	420.4	412.6	413.3	407.4	406.6
60°	387.9	379.4	380.1	374.9	374.0
62.5°	356.0	346.2	348.2	342.3	342.2
65°	303.0	296.2	297.0	294.4	294.4
67.5°	252.1	245.8	250.4	248.3	248.1
70°	214.7	210.5	216.4	216.4	215.6
72.5°	180.1	179.9	187.4	187.4	187.9
75°	130.7	136.7	144.6	145.5	145.5
77.5°	87.3	97.8	106.5	106.8	106.7
80°	62.3	74.2	82.2	84.0	83.1
82.5°	42.2	54.8	61.5	63.2	62.3
85°	19.0	29.2	34.6	35.5	34.6
87.5°	5.8	12.4	15.9	14.8	13.5
90°	1.3	3.7	10.0	5.0	5.0
92.5°	5.3	25.3	56.1	24.8	16.0
95°	12.5	49.2	163.9	84.5	57.6
97.5°	21.8	54.1	245.2	195.0	143.6
100°	28.8	58.1	270.3	273.9	212.7
102.5°	34.8	62.2	277.3	341.1	288.8
105°	45.0	68.3	276.5	419.8	391.6
107.5°	55.6	77.1	260.8	460.6	467.5
110°	62.6	82.1	247.7	471.1	500.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	69.6	88.2	235.7	464.5	509.5
115°	80.1	97.2	221.5	441.8	504.2
117.5°	90.3	106.0	211.7	410.5	479.7
120°	96.3	111.0	207.7	389.4	456.7
122.5°	102.3	117.0	204.7	368.4	434.7
125°	111.4	124.8	201.4	340.5	401.6
127.5°	118.6	132.3	198.7	318.0	369.6
130°	122.6	137.3	197.7	303.9	351.6
132.5°	126.6	141.3	196.7	291.8	334.6
135°	132.6	146.1	195.2	274.8	311.6
137.5°	138.9	152.1	194.9	262.2	292.3
140°	143.9	156.1	193.9	252.1	280.3
142.5°	147.9	159.1	193.9	245.0	269.3
145°	153.9	163.7	192.7	234.4	252.7
147.5°	159.9	169.4	192.7	225.6	240.7
150°	163.9	172.5	192.7	220.5	232.7
152.5°	167.9	174.5	192.7	216.4	225.7
155°	173.9	178.8	192.7	211.6	217.7
157.5°	178.4	183.1	192.7	207.3	211.7
160°	181.4	185.1	192.7	205.3	207.7
162.5°	184.4	187.1	192.7	203.3	205.7
165°	187.7	190.1	192.7	200.2	202.7
167.5°	190.7	191.9	193.9	199.0	199.9
170°	192.7	193.9	193.9	198.9	198.9
172.5°	193.7	193.9	193.9	197.9	196.9
175°	195.2	195.2	193.9	196.4	196.4
177.5°	195.2	195.2	194.2	196.2	195.2
180°	195.2	195.2	195.2	195.2	195.2

(END OF REPORT)