

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: P564526

Luminaire Tested: **SQ4-PW1-025U-050D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564526  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2106-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PW1-025U-050D-835-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

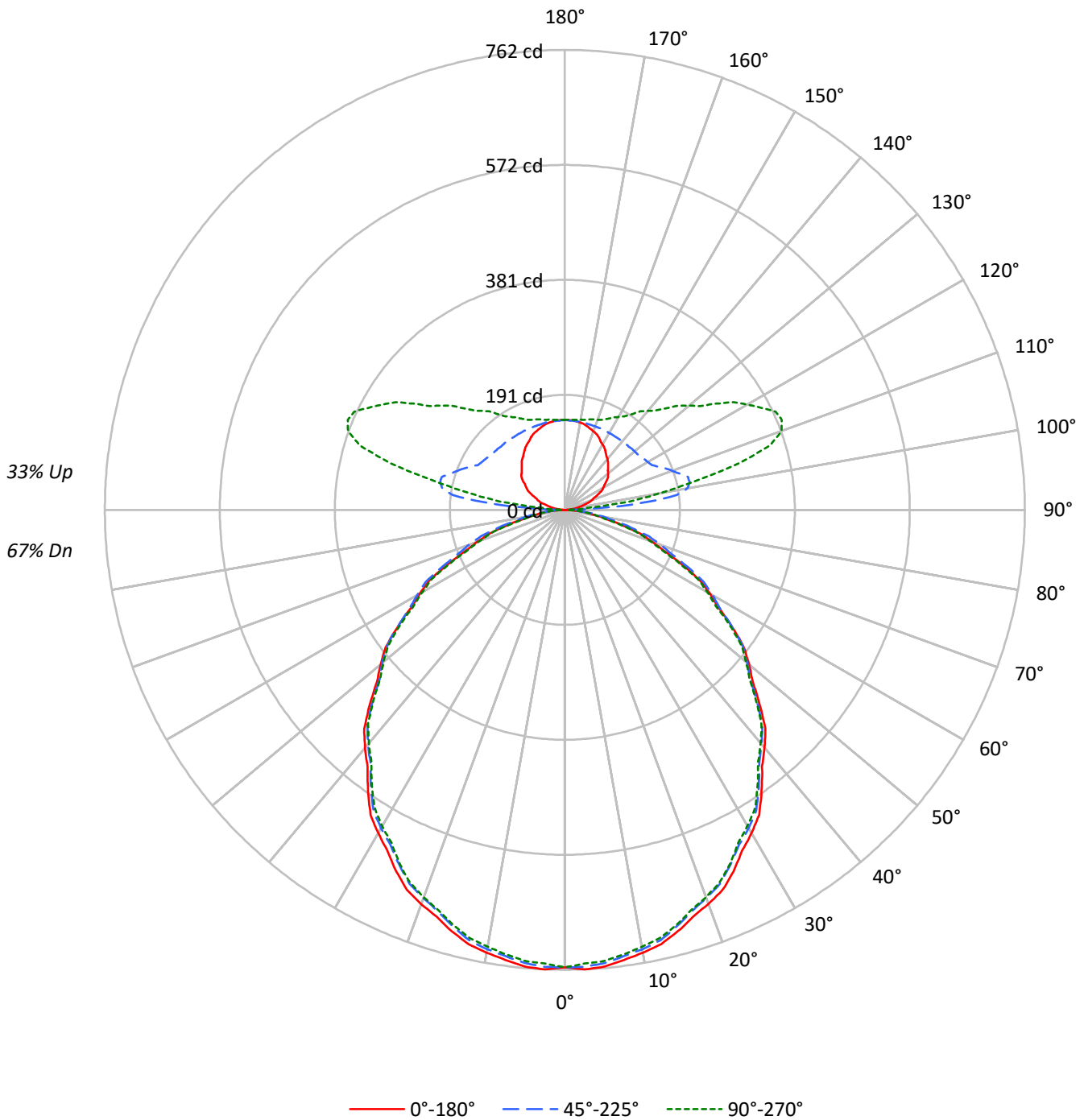
Lumens per Lamp: N/A  
Luminaire Lumens: 2894.8 lumens  
Efficiency: N/A  
Efficacy: 131.0 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

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



TEST NUMBER: P564526  
CATALOG NUMBER: SQ4-PW1-025U-050D-835-1D-UNV-STD-W-4

### Luminous Intensity Polar Plot





TEST NUMBER: P564526

CATALOG NUMBER: SQ4-PW1-025U-050D-835-1D-UNV-STD-W-4

**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	93	90	96	92	88	85	82	79	77	72	70	68	63	62	61	56
2	93	85	79	74	87	80	75	70	72	67	64	63	60	57	56	53	51	47
3	85	75	67	61	79	71	64	59	63	58	54	56	52	49	50	46	44	40
4	78	66	58	52	73	63	56	50	56	50	46	50	45	42	44	41	38	35
5	71	59	51	45	67	56	49	43	50	44	40	45	40	36	40	36	33	30
6	66	53	45	39	62	51	43	38	46	39	35	41	36	32	36	32	29	26
7	61	48	40	34	57	46	38	33	41	35	31	37	32	28	33	29	26	23
8	57	44	36	30	53	42	35	29	38	32	27	34	29	25	31	26	23	21
9	53	40	32	27	50	38	31	26	35	29	25	31	26	23	28	24	21	19
10	49	37	30	25	47	35	28	24	32	26	22	29	24	21	26	22	19	17

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

	0°	45°	90°
0°	6992	6992	6992
5°	7037	6981	6951
10°	6980	6924	6887
15°	6907	6830	6805
20°	6824	6720	6706
25°	6729	6607	6586
30°	6587	6487	6444
35°	6400	6310	6271
40°	6200	6104	6080
45°	5959	5881	5855
50°	5711	5664	5625
55°	5445	5445	5360
60°	5113	5211	5026
65°	4678	4912	4563
70°	4125	4521	4017
75°	3522	4046	3426
80°	2731	3406	2768
85°	1768	2615	2329



TEST NUMBER: P564526

CATALOG NUMBER: SQ4-PW1-025U-050D-835-1D-UNV-STD-W-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.4	2.5
10°-20°	201.5	7.0
20°-30°	298.8	10.3
30°-40°	349.7	12.1
40°-50°	348.1	12.0
50°-60°	300.6	10.4
60°-70°	216.4	7.5
70°-80°	113.5	3.9
80°-90°	28.9	1.0
90°-100°	72.6	2.5
100°-110°	190.9	6.6
110°-120°	198.0	6.8
120°-130°	158.8	5.5
130°-140°	124.6	4.3
140°-150°	95.6	3.3
150°-160°	68.9	2.4
160°-170°	42.1	1.5
170°-180°	14.2	0.5
0°-30°	571.7	19.7
0°-40°	921.3	31.8
0°-60°	1570.1	54.2
0°-90°	1928.8	66.6
90°-120°	461.6	15.9
90°-150°	840.6	29.0
90°-180°	966.0	33.4
0°-180°	2894.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	758	758	758	758	758	
5°	760	751	754	752	750	72
15°	723	714	715	714	712	204
25°	661	650	649	645	647	304
35°	568	560	560	555	557	355
45°	457	453	451	449	449	352
55°	338	338	338	334	333	302
65°	214	221	225	216	209	212
75°	99	108	114	106	96	106
85°	17	22	25	23	22	22
90°	1	3	8	4	4	1
95°	10	38	125	64	44	11
105°	34	52	211	320	299	36
115°	61	74	169	337	385	60
125°	85	95	154	260	307	75
135°	101	112	149	210	238	78
145°	118	125	147	179	193	74
155°	133	136	147	162	166	61
165°	143	145	147	153	155	40
175°	149	149	148	150	150	14
180°	149	149	149	149	149	

TEST NUMBER: P564526

CATALOG NUMBER: SQ4-PW1-025U-050D-835-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	757.8	757.8	757.8	757.8	757.8
2.5°	762.1	755.8	757.8	756.1	752.5
5°	759.8	751.3	753.8	751.8	750.5
7.5°	752.1	744.2	746.1	743.9	743.1
10°	745.1	737.3	739.1	736.4	735.1
12.5°	737.1	728.7	730.6	727.9	727.1
15°	723.1	713.9	715.1	713.7	712.4
17.5°	706.8	697.5	697.7	695.6	695.3
20°	695.0	685.2	684.4	681.7	683.0
22.5°	682.2	671.9	671.0	667.3	669.1
25°	661.0	649.9	649.0	645.0	647.0
27.5°	636.4	625.5	625.5	619.9	622.0
30°	618.3	607.8	608.9	602.3	604.9
32.5°	599.0	589.6	590.2	583.6	586.2
35°	568.2	560.4	560.2	554.9	556.8
37.5°	536.7	529.8	528.7	525.6	526.1
40°	514.8	508.9	506.8	504.8	504.8
42.5°	491.8	486.4	484.3	482.8	482.3
45°	456.7	452.8	450.7	449.3	448.7
47.5°	422.0	418.3	416.5	415.5	414.9
50°	397.9	395.3	394.6	392.6	391.9
52.5°	373.9	372.3	371.6	369.1	368.4
55°	338.5	337.9	338.5	333.8	333.2
57.5°	301.7	302.7	304.9	298.5	297.0
60°	277.1	279.7	282.4	275.0	272.4
62.5°	252.0	256.2	260.0	251.5	247.8
65°	214.3	220.8	225.0	216.2	209.0
67.5°	178.0	186.1	191.1	181.6	173.5
70°	152.9	162.0	167.6	158.0	148.9
72.5°	131.0	141.2	145.7	136.7	127.5
75°	98.8	108.0	113.5	105.9	96.1
77.5°	70.1	78.7	83.3	76.7	68.6
80°	51.4	60.5	64.1	58.6	52.1
82.5°	36.5	44.0	46.5	43.2	38.7
85°	16.7	21.9	24.7	23.3	22.0
87.5°	4.5	8.5	11.7	10.9	11.4
90°	1.0	2.8	7.6	3.8	3.8
92.5°	4.0	19.3	42.8	19.0	12.2
95°	9.6	37.6	125.1	64.5	43.9
97.5°	16.6	41.3	187.2	148.9	109.7
100°	22.0	44.4	206.3	209.1	162.4
102.5°	26.6	47.5	211.7	260.5	220.5
105°	34.4	52.1	211.1	320.5	299.0
107.5°	42.4	58.9	199.1	351.7	356.9
110°	47.8	62.7	189.1	359.7	382.1

TEST NUMBER: P564526

CATALOG NUMBER: SQ4-PW1-025U-050D-835-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	53.1	67.3	180.0	354.6	389.0
115°	61.1	74.2	169.1	337.3	385.0
117.5°	69.0	80.9	161.6	313.4	366.3
120°	73.6	84.8	158.6	297.3	348.7
122.5°	78.1	89.4	156.3	281.2	331.9
125°	85.0	95.3	153.8	259.9	306.6
127.5°	90.6	101.0	151.7	242.8	282.2
130°	93.6	104.8	150.9	232.0	268.4
132.5°	96.7	107.9	150.2	222.8	255.4
135°	101.3	111.5	149.0	209.8	237.9
137.5°	106.0	116.1	148.8	200.2	223.2
140°	109.9	119.2	148.1	192.5	214.0
142.5°	112.9	121.5	148.1	187.1	205.6
145°	117.5	125.0	147.1	179.0	193.0
147.5°	122.1	129.4	147.1	172.2	183.8
150°	125.1	131.7	147.1	168.3	177.7
152.5°	128.2	133.2	147.1	165.2	172.3
155°	132.8	136.5	147.1	161.5	166.2
157.5°	136.2	139.8	147.1	158.3	161.6
160°	138.5	141.3	147.1	156.7	158.6
162.5°	140.8	142.9	147.1	155.2	157.0
165°	143.3	145.2	147.1	152.9	154.8
167.5°	145.6	146.5	148.1	151.9	152.7
170°	147.1	148.0	148.1	151.9	151.9
172.5°	147.9	148.1	148.1	151.1	150.4
175°	149.0	149.0	148.1	150.0	150.0
177.5°	149.0	149.0	148.3	149.8	149.0
180°	149.0	149.0	149.0	149.0	149.0

(END OF REPORT)