

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: P561990

Luminaire Tested: **SQ4-PR1-100U-050D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561990  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-PR1-100U-050D-92765-1D-UNV-STD-W-4 (5000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

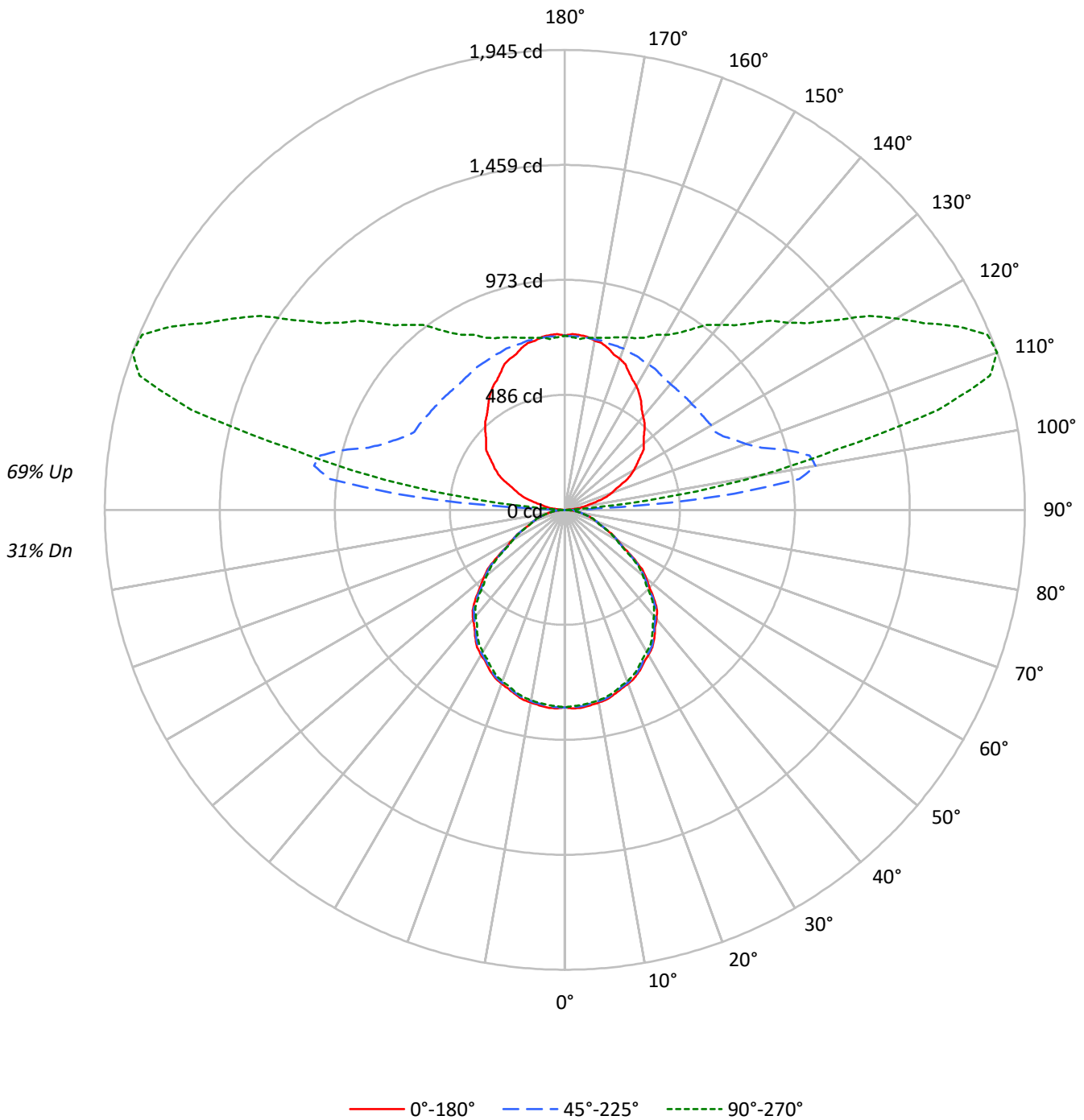
Lumens per Lamp: N/A  
Luminaire Lumens: 6663.2 lumens  
Efficiency: N/A  
Efficacy: 125.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 53  
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				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	31		
1	94	90	86	83	84	81	78	75	64	62	60	49	47	46	35	34	33	27		
2	86	78	73	68	77	71	66	62	56	53	50	43	41	39	31	29	28	23		
3	78	69	62	57	70	62	56	52	50	46	42	38	35	33	27	26	24	19		
4	71	61	54	48	64	55	49	44	44	40	36	34	31	28	25	23	21	17		
5	66	54	47	41	59	49	43	38	40	35	31	31	27	25	22	20	18	15		
6	60	49	41	35	54	44	37	33	36	31	27	28	24	22	20	18	16	13		
7	56	44	36	31	50	40	33	28	32	27	24	25	22	19	18	16	14	12		
8	52	40	32	27	46	36	30	25	29	24	21	23	19	17	17	15	13	10		
9	48	36	29	24	43	33	27	22	27	22	19	21	18	15	16	13	12	9		
10	45	33	26	21	40	30	24	20	25	20	17	19	16	14	14	12	11	8		

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

	0°	45°	90°
0°	7709	7709	7709
5°	7779	7718	7679
10°	7753	7700	7660
15°	7720	7672	7631
20°	7681	7632	7575
25°	7627	7576	7487
30°	7545	7490	7384
35°	7434	7368	7262
40°	7264	7185	7055
45°	6968	6846	6705
50°	6446	6291	6168
55°	5627	5500	5384
60°	4740	4702	4608
65°	4100	4117	4085
70°	3766	3785	3785
75°	3618	3618	3643
80°	3406	3443	3406
85°	2742	3049	3049



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.0	1.2
10°-20°	226.1	3.4
20°-30°	341.0	5.1
30°-40°	406.3	6.1
40°-50°	400.6	6.0
50°-60°	306.1	4.6
60°-70°	189.4	2.8
70°-80°	107.6	1.6
80°-90°	32.7	0.5
90°-100°	335.6	5.0
100°-110°	954.8	14.3
110°-120°	914.8	13.7
120°-130°	724.0	10.9
130°-140°	581.1	8.7
140°-150°	455.0	6.8
150°-160°	332.9	5.0
160°-170°	206.2	3.1
170°-180°	70.0	1.1
0°-30°	646.1	9.7
0°-40°	1052.3	15.8
0°-60°	1759.0	26.4
0°-90°	2088.8	31.3
90°-120°	2205.2	33.1
90°-150°	3965.3	59.5
90°-180°	4574.0	68.6
0°-180°	6663.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	836	836	836	836	836	
5°	840	831	833	830	829	80
15°	808	800	803	800	799	228
25°	749	740	744	736	736	345
35°	660	652	654	646	645	412
45°	534	527	525	515	514	409
55°	350	344	342	336	335	313
65°	188	186	189	187	187	190
75°	102	102	102	102	102	107
85°	26	27	29	29	29	30
90°	0	0	0	0	0	3
95°	36	144	650	225	139	42
105°	148	225	973	1719	1634	157
115°	276	333	738	1563	1835	272
125°	389	432	704	1169	1397	348
135°	476	516	696	987	1116	367
145°	561	590	701	854	931	351
155°	641	656	718	772	804	296
165°	708	711	727	742	753	199
175°	742	738	735	731	725	70
180°	736	736	736	736	736	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	835.6	835.6	835.6	835.6	835.6
2.5°	840.7	833.4	835.6	833.7	829.8
5°	839.9	830.7	833.4	830.5	829.1
7.5°	833.4	824.4	827.1	824.2	823.3
10°	827.6	819.2	821.9	819.0	817.6
12.5°	821.3	812.3	815.6	812.1	810.7
15°	808.2	799.8	803.2	800.3	798.9
17.5°	793.8	784.8	788.2	784.8	783.0
20°	782.3	773.9	777.3	772.2	771.5
22.5°	769.6	761.2	764.6	757.8	757.7
25°	749.2	740.0	744.2	736.2	735.5
27.5°	724.9	716.4	719.8	711.8	710.9
30°	708.2	699.7	703.1	694.5	693.1
32.5°	689.2	681.3	684.1	675.5	674.6
35°	660.0	652.2	654.2	645.5	644.8
37.5°	626.7	619.7	620.8	611.3	610.6
40°	603.1	596.1	596.6	586.5	585.8
42.5°	577.2	570.2	569.6	559.5	558.8
45°	534.0	527.0	524.7	515.3	513.9
47.5°	484.8	477.7	473.4	465.8	464.8
50°	449.1	442.0	438.3	431.8	429.7
52.5°	410.5	403.5	400.3	394.3	392.2
55°	349.8	344.1	341.9	336.1	334.7
57.5°	292.0	288.2	287.6	282.0	281.4
60°	256.9	254.8	254.8	249.7	249.7
62.5°	227.0	225.4	226.6	223.2	222.7
65°	187.8	186.4	188.6	187.1	187.1
67.5°	156.9	156.9	158.2	157.6	157.6
70°	139.6	139.6	140.3	140.3	140.3
72.5°	124.1	123.5	125.4	125.4	124.8
75°	101.5	101.5	101.5	102.2	102.2
77.5°	79.0	79.2	79.7	79.6	79.0
80°	64.1	64.8	64.8	64.1	64.1
82.5°	49.1	49.8	49.8	49.6	49.1
85°	25.9	27.3	28.8	28.8	28.8
87.5°	7.5	9.7	11.5	11.5	10.9
90°	0.0	0.0	0.0	0.0	0.0
92.5°	11.2	59.4	137.8	40.1	30.2
95°	36.4	144.5	649.6	224.8	138.6
97.5°	66.9	169.3	1000.5	715.9	490.6
100°	88.2	184.0	1076.6	1090.5	840.0
102.5°	111.7	199.9	1059.8	1395.9	1177.1
105°	148.4	225.1	973.0	1718.7	1633.8
107.5°	185.6	254.4	871.7	1809.7	1885.3
110°	211.4	275.7	813.4	1774.9	1944.6

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	236.0	297.1	774.2	1692.5	1934.6
115°	275.8	333.3	737.8	1563.0	1835.4
117.5°	310.8	364.7	716.3	1421.4	1710.0
120°	338.8	384.0	714.0	1340.5	1617.0
122.5°	361.2	406.4	708.4	1269.5	1526.3
125°	389.2	431.6	704.2	1168.6	1397.2
127.5°	419.7	459.4	702.0	1108.3	1296.7
130°	435.4	475.1	698.6	1066.4	1230.6
132.5°	452.2	490.8	698.6	1033.6	1184.7
135°	476.0	515.7	695.8	987.1	1115.8
137.5°	498.4	537.0	695.5	947.8	1059.0
140°	515.2	554.9	694.4	915.2	1022.0
142.5°	534.3	567.4	697.8	889.2	985.1
145°	561.4	590.2	701.4	854.4	931.0
147.5°	584.7	612.6	707.6	819.1	885.4
150°	604.8	624.0	709.8	807.5	854.0
152.5°	620.5	640.8	712.1	791.7	835.0
155°	641.2	656.3	718.2	772.1	803.6
157.5°	667.0	676.0	719.6	763.2	785.7
160°	680.4	687.3	725.2	756.5	775.6
162.5°	688.3	696.2	726.3	750.8	765.5
165°	708.4	711.2	726.6	742.3	753.2
167.5°	722.1	719.7	733.1	740.2	744.5
170°	726.6	725.2	730.8	732.3	737.8
172.5°	736.7	732.0	734.2	730.1	734.5
175°	742.0	737.9	735.0	730.7	725.2
177.5°	744.3	737.7	734.2	729.7	730.8
180°	736.4	736.4	736.4	736.4	736.4

(END OF REPORT)