

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: P523829

Luminaire Tested: **SQ4-PP3-100U-050D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/24/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P523829  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/24/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-100U-050D-92765-1D-UNV-STD-W-4 (3500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6381.1 lumens  
Efficiency: N/A  
Efficacy: 120.2 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-Indirect

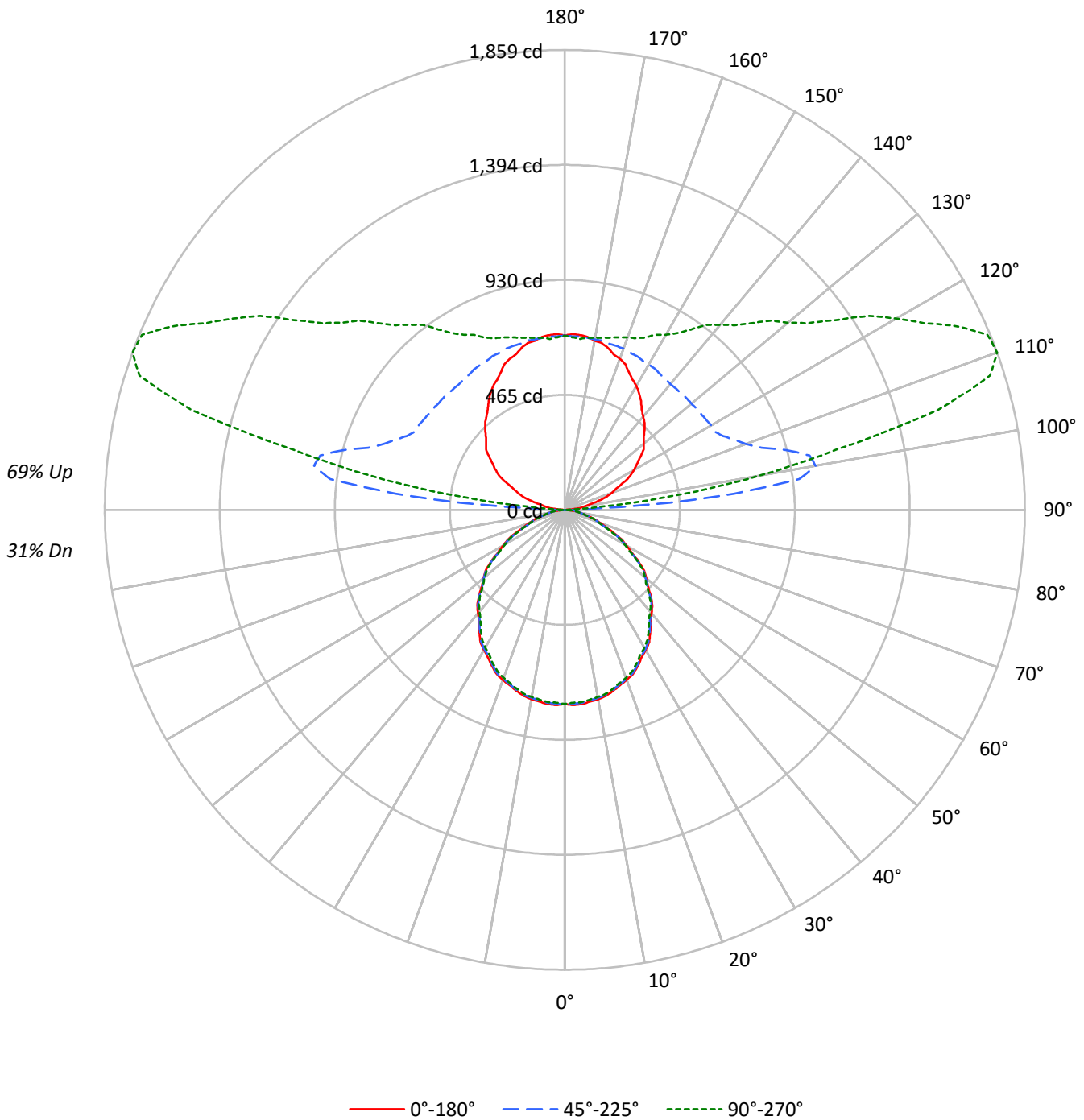
Input Watts (W): 53.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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	85	78	72	68	77	71	66	62	56	53	50	43	41	39	31	29	28	23
3	78	69	62	56	70	62	56	51	50	45	42	38	35	33	27	26	24	19
4	71	61	53	48	64	55	49	44	44	39	36	34	31	28	24	22	21	17
5	65	54	46	41	59	49	42	37	39	34	31	30	27	24	22	20	18	14
6	60	48	41	35	54	44	37	32	35	30	27	27	24	21	20	18	16	13
7	55	44	36	31	50	40	33	28	32	27	23	25	21	19	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	21	23	19	17	17	14	13	10
9	48	36	29	24	43	33	26	22	27	22	18	21	17	15	15	13	11	9
10	45	33	26	21	40	30	24	20	24	20	16	19	16	13	14	12	10	8

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

	0°	45°	90°
0°	7240	7240	7240
5°	7293	7249	7223
10°	7281	7230	7197
15°	7233	7193	7154
20°	7185	7145	7091
25°	7100	7051	6980
30°	6968	6931	6844
35°	6786	6740	6654
40°	6569	6528	6453
45°	6390	6345	6281
50°	6160	6120	6061
55°	5841	5763	5720
60°	5318	5165	5139
65°	4685	4488	4475
70°	4044	3876	3876
75°	3483	3433	3383
80°	3071	3108	3034
85°	2403	2625	2625



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.2	1.2
10°-20°	211.9	3.3
20°-30°	317.4	5.0
30°-40°	372.3	5.8
40°-50°	373.4	5.9
50°-60°	318.5	5.0
60°-70°	207.7	3.3
70°-80°	104.2	1.6
80°-90°	28.9	0.5
90°-100°	320.7	5.0
100°-110°	912.7	14.3
110°-120°	874.4	13.7
120°-130°	692.1	10.8
130°-140°	555.5	8.7
140°-150°	434.9	6.8
150°-160°	318.2	5.0
160°-170°	197.1	3.1
170°-180°	66.9	1.0
0°-30°	603.5	9.5
0°-40°	975.7	15.3
0°-60°	1667.7	26.1
0°-90°	2008.5	31.5
90°-120°	2107.9	33.0
90°-150°	3790.4	59.4
90°-180°	4373.0	68.5
0°-180°	6381.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	785	785	785	785	785	
5°	788	780	783	780	780	75
15°	757	750	753	750	749	214
25°	697	689	693	686	686	321
35°	602	596	598	592	591	376
45°	490	486	486	481	481	377
55°	363	362	358	356	356	323
65°	215	210	206	204	205	214
75°	98	98	96	96	95	106
85°	23	25	25	25	25	27
90°	0	0	0	0	0	2
95°	35	138	621	215	132	40
105°	142	215	930	1643	1562	150
115°	264	319	705	1494	1754	260
125°	372	413	673	1117	1336	333
135°	455	493	665	944	1067	351
145°	537	564	670	817	890	335
155°	613	627	686	738	768	283
165°	677	680	695	710	720	190
175°	709	705	703	698	693	67
180°	704	704	704	704	704	

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CATALOG NUMBER: SQ4-PP3-100U-050D-92765-1D-UNV-STD-W-4 (3500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	784.7	784.7	784.7	784.7	784.7
2.5°	789.7	783.2	784.7	783.6	780.3
5°	787.5	780.1	782.7	779.9	779.9
7.5°	782.1	774.1	776.6	773.9	773.7
10°	777.2	769.1	771.7	768.9	768.2
12.5°	770.0	762.0	765.1	761.8	761.6
15°	757.2	749.8	753.1	750.3	749.0
17.5°	742.8	734.7	738.7	734.8	734.3
20°	731.8	723.7	727.7	722.2	722.2
22.5°	718.6	710.5	715.0	707.8	707.8
25°	697.4	689.3	692.6	686.4	685.7
27.5°	672.2	664.3	667.7	660.7	660.5
30°	654.1	646.7	650.6	643.0	642.4
32.5°	634.3	627.4	630.3	622.7	622.0
35°	602.5	596.4	598.4	591.5	590.8
37.5°	569.1	562.9	565.1	559.1	558.9
40°	545.4	541.4	542.0	537.1	535.8
42.5°	523.4	518.8	519.4	514.6	514.3
45°	489.7	486.3	486.3	481.4	481.4
47.5°	453.9	451.4	450.6	446.6	446.5
50°	429.2	427.1	426.4	423.0	422.3
52.5°	403.3	402.4	400.0	397.1	397.0
55°	363.1	361.8	358.3	356.2	355.6
57.5°	319.5	316.8	312.9	309.9	310.5
60°	288.2	285.5	279.9	278.5	278.5
62.5°	257.9	254.7	249.1	247.2	248.3
65°	214.6	210.5	205.6	204.3	205.0
67.5°	175.2	171.6	166.3	166.3	165.8
70°	149.9	147.9	143.7	143.7	143.7
72.5°	127.4	126.4	123.4	123.4	122.8
75°	97.7	97.7	96.3	95.6	94.9
77.5°	73.2	73.4	72.8	72.1	70.8
80°	57.8	59.1	58.5	57.8	57.1
82.5°	43.5	44.8	44.7	43.5	43.3
85°	22.7	24.7	24.8	24.8	24.8
87.5°	6.1	8.2	8.8	8.8	9.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	10.7	56.8	131.7	38.3	28.9
95°	34.8	138.2	620.9	214.9	132.5
97.5°	64.0	161.8	956.3	684.3	468.9
100°	84.3	175.9	1029.1	1042.4	802.9
102.5°	106.8	191.1	1013.1	1334.3	1125.2
105°	141.9	215.1	930.1	1642.9	1561.7
107.5°	177.5	243.1	833.2	1729.9	1802.1
110°	202.1	263.6	777.5	1696.6	1858.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	225.6	284.0	740.1	1617.8	1849.2
115°	263.6	318.6	705.3	1494.1	1754.4
117.5°	297.1	348.6	684.6	1358.7	1634.5
120°	323.9	367.0	682.5	1281.4	1545.7
122.5°	345.3	388.4	677.2	1213.5	1459.0
125°	372.0	412.6	673.1	1117.1	1335.6
127.5°	401.2	439.2	671.0	1059.4	1239.5
130°	416.2	454.1	667.8	1019.3	1176.3
132.5°	432.3	469.2	667.8	988.0	1132.4
135°	455.0	493.0	665.1	943.6	1066.6
137.5°	476.4	513.3	664.8	906.0	1012.3
140°	492.5	530.4	663.8	874.9	976.9
142.5°	510.7	542.3	667.0	850.0	941.6
145°	536.6	564.1	670.5	816.7	889.9
147.5°	558.9	585.5	676.4	783.0	846.3
150°	578.1	596.4	678.5	771.8	816.3
152.5°	593.1	612.5	680.6	756.8	798.1
155°	612.9	627.3	686.5	738.1	768.2
157.5°	637.5	646.2	687.9	729.6	751.0
160°	650.4	656.9	693.2	723.1	741.4
162.5°	657.9	665.5	694.3	717.6	731.8
165°	677.2	679.8	694.6	709.5	720.0
167.5°	690.3	687.9	700.7	707.5	711.7
170°	694.6	693.2	698.6	700.0	705.3
172.5°	704.2	699.7	701.8	697.9	702.0
175°	709.3	705.3	702.6	698.4	693.2
177.5°	711.4	705.1	701.8	697.5	698.6
180°	703.9	703.9	703.9	703.9	703.9

(END OF REPORT)