

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: P561992

Luminaire Tested: **SQ4-PR1-100U-050D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561992  
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 (6500K)  
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 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

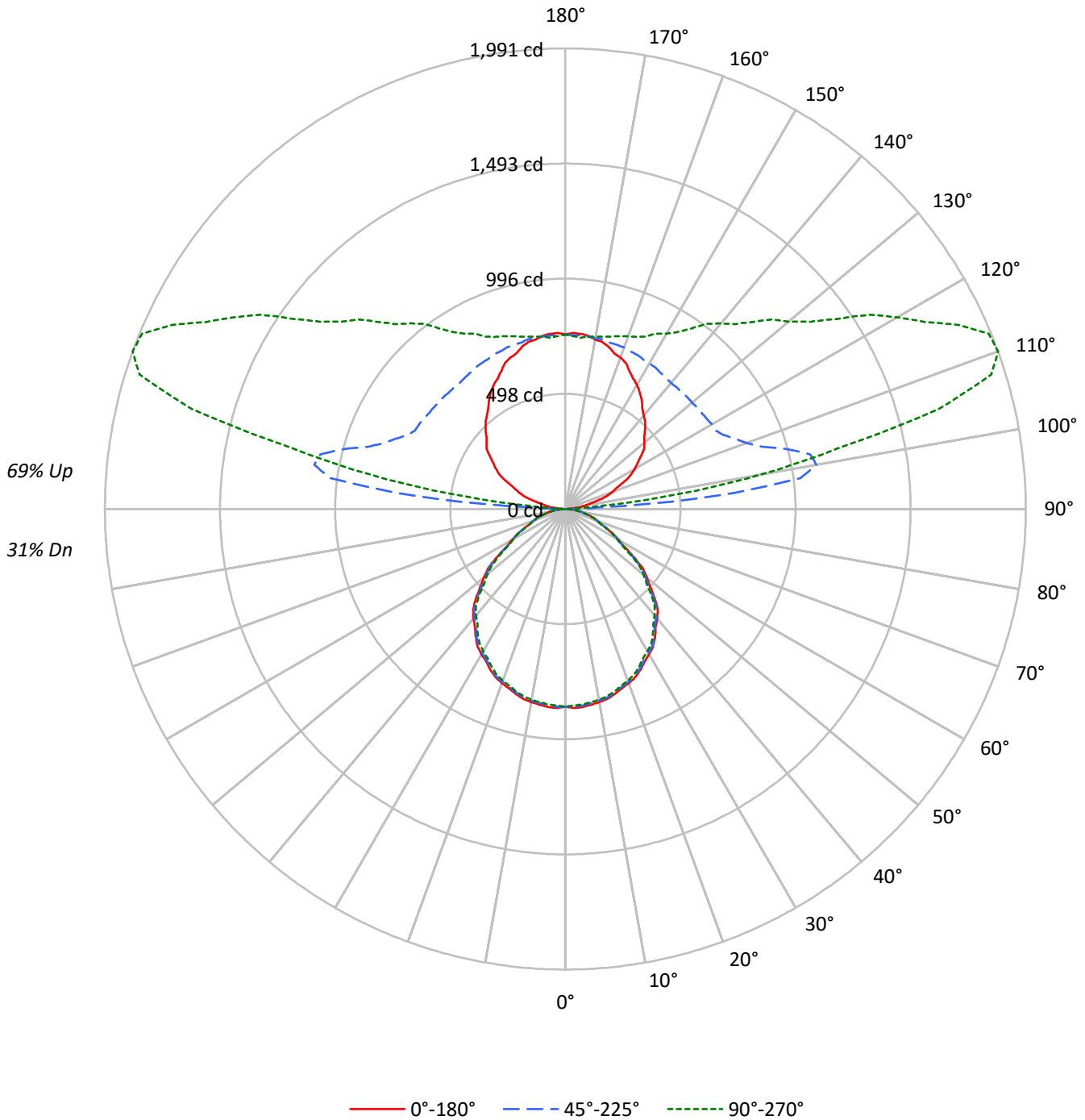
Lumens per Lamp: N/A  
Luminaire Lumens: 6822.2 lumens  
Efficiency: N/A  
Efficacy: 129.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 52.7  
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	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°	7893	7893	7893
5°	7964	7903	7862
10°	7939	7884	7842
15°	7904	7854	7812
20°	7864	7813	7755
25°	7809	7756	7667
30°	7725	7669	7560
35°	7610	7544	7436
40°	7437	7358	7224
45°	7135	7009	6864
50°	6600	6440	6314
55°	5760	5630	5511
60°	4855	4812	4718
65°	4198	4216	4183
70°	3858	3876	3876
75°	3704	3704	3729
80°	3485	3523	3485
85°	2805	3123	3123



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.9	1.2
10°-20°	231.5	3.4
20°-30°	349.1	5.1
30°-40°	416.0	6.1
40°-50°	410.1	6.0
50°-60°	313.4	4.6
60°-70°	194.0	2.8
70°-80°	110.2	1.6
80°-90°	33.5	0.5
90°-100°	343.6	5.0
100°-110°	977.6	14.3
110°-120°	936.6	13.7
120°-130°	741.3	10.9
130°-140°	595.0	8.7
140°-150°	465.8	6.8
150°-160°	340.8	5.0
160°-170°	211.1	3.1
170°-180°	71.6	1.1
0°-30°	661.5	9.7
0°-40°	1077.5	15.8
0°-60°	1801.0	26.4
0°-90°	2138.7	31.3
90°-120°	2257.8	33.1
90°-150°	4059.9	59.5
90°-180°	4684.0	68.7
0°-180°	6822.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	856	856	856	856	856	
5°	860	850	853	850	849	82
15°	828	819	822	819	818	234
25°	767	758	762	754	753	353
35°	676	668	670	661	660	422
45°	547	540	537	528	526	419
55°	358	352	350	344	343	321
65°	192	191	193	192	192	195
75°	104	104	104	105	105	110
85°	26	28	30	30	30	31
90°	0	0	0	0	0	3
95°	37	148	665	230	142	43
105°	152	230	996	1760	1673	161
115°	282	341	755	1600	1879	278
125°	398	442	721	1196	1431	357
135°	487	528	712	1011	1142	376
145°	575	604	718	875	953	359
155°	656	672	735	791	823	303
165°	725	728	744	760	771	204
175°	760	756	753	748	742	72
180°	754	754	754	754	754	



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CATALOG NUMBER: SQ4-PR1-100U-050D-92765-1D-UNV-STD-W-4 (6500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	855.5	855.5	855.5	855.5	855.5
2.5°	860.8	853.3	855.5	853.6	849.6
5°	859.9	850.5	853.3	850.3	848.9
7.5°	853.3	844.1	846.8	843.8	843.0
10°	847.4	838.7	841.5	838.5	837.1
12.5°	840.9	831.7	835.0	831.4	830.0
15°	827.5	818.8	822.3	819.4	817.9
17.5°	812.8	803.5	807.0	803.6	801.7
20°	801.0	792.3	795.8	790.6	789.9
22.5°	788.0	779.4	782.8	775.9	775.8
25°	767.1	757.7	761.9	753.8	753.1
27.5°	742.2	733.5	737.0	728.7	727.9
30°	725.1	716.4	719.9	711.0	709.6
32.5°	705.6	697.5	700.5	691.6	690.7
35°	675.7	667.8	669.8	660.9	660.2
37.5°	641.7	634.5	635.6	625.9	625.2
40°	617.5	610.3	610.9	600.5	599.8
42.5°	591.0	583.8	583.2	572.8	572.1
45°	546.8	539.5	537.2	527.6	526.1
47.5°	496.3	489.1	484.7	476.9	475.9
50°	459.8	452.6	448.7	442.1	439.9
52.5°	420.3	413.1	409.8	403.8	401.6
55°	358.1	352.4	350.0	344.1	342.6
57.5°	299.0	295.1	294.4	288.7	288.1
60°	263.1	260.9	260.8	255.7	255.7
62.5°	232.4	230.8	232.0	228.6	228.0
65°	192.3	190.9	193.1	191.6	191.6
67.5°	160.6	160.6	162.0	161.4	161.4
70°	143.0	143.0	143.7	143.7	143.7
72.5°	127.0	126.5	128.4	128.3	127.8
75°	103.9	103.9	103.9	104.6	104.6
77.5°	80.9	81.1	81.6	81.5	80.9
80°	65.6	66.3	66.3	65.6	65.6
82.5°	50.3	51.0	51.0	50.8	50.3
85°	26.5	28.0	29.5	29.5	29.5
87.5°	7.7	10.0	11.8	11.8	11.2
90°	0.0	0.0	0.0	0.0	0.0
92.5°	11.5	60.8	141.1	41.1	31.0
95°	37.3	148.0	665.1	230.2	141.9
97.5°	68.5	173.4	1024.3	733.0	502.3
100°	90.3	188.4	1102.3	1116.6	860.1
102.5°	114.4	204.7	1085.1	1429.2	1205.2
105°	151.9	230.4	996.2	1759.7	1672.8
107.5°	190.1	260.4	892.5	1852.9	1930.3
110°	216.4	282.3	832.8	1817.3	1991.1

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	241.7	304.2	792.7	1732.9	1980.7
115°	282.4	341.3	755.4	1600.3	1879.2
117.5°	318.2	373.4	733.3	1455.4	1750.8
120°	346.9	393.1	731.1	1372.5	1655.6
122.5°	369.8	416.1	725.3	1299.8	1562.7
125°	398.5	441.9	721.0	1196.5	1430.6
127.5°	429.7	470.4	718.7	1134.8	1327.7
130°	445.8	486.4	715.3	1091.8	1260.0
132.5°	463.0	502.5	715.3	1058.2	1213.0
135°	487.4	528.0	712.4	1010.7	1142.5
137.5°	510.3	549.8	712.1	970.4	1084.3
140°	527.5	568.2	711.0	937.1	1046.4
142.5°	547.0	580.9	714.4	910.5	1008.6
145°	574.8	604.2	718.2	874.7	953.2
147.5°	598.6	627.2	724.5	838.7	906.5
150°	619.2	638.9	726.8	826.7	874.4
152.5°	635.3	656.0	729.0	810.6	854.9
155°	656.5	671.9	735.4	790.6	822.8
157.5°	682.9	692.1	736.8	781.5	804.4
160°	696.7	703.7	742.5	774.5	794.1
162.5°	704.7	712.8	743.7	768.7	783.8
165°	725.3	728.1	744.0	760.0	771.2
167.5°	739.4	736.8	750.6	757.8	762.3
170°	744.0	742.6	748.3	749.8	755.4
172.5°	754.3	749.5	751.7	747.5	752.0
175°	759.7	755.5	752.6	748.1	742.5
177.5°	762.0	755.3	751.7	747.1	748.3
180°	754.0	754.0	754.0	754.0	754.0

(END OF REPORT)