

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: P561991

Luminaire Tested: **SQ4-PR1-100U-050D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561991  
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 (5700K)  
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 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

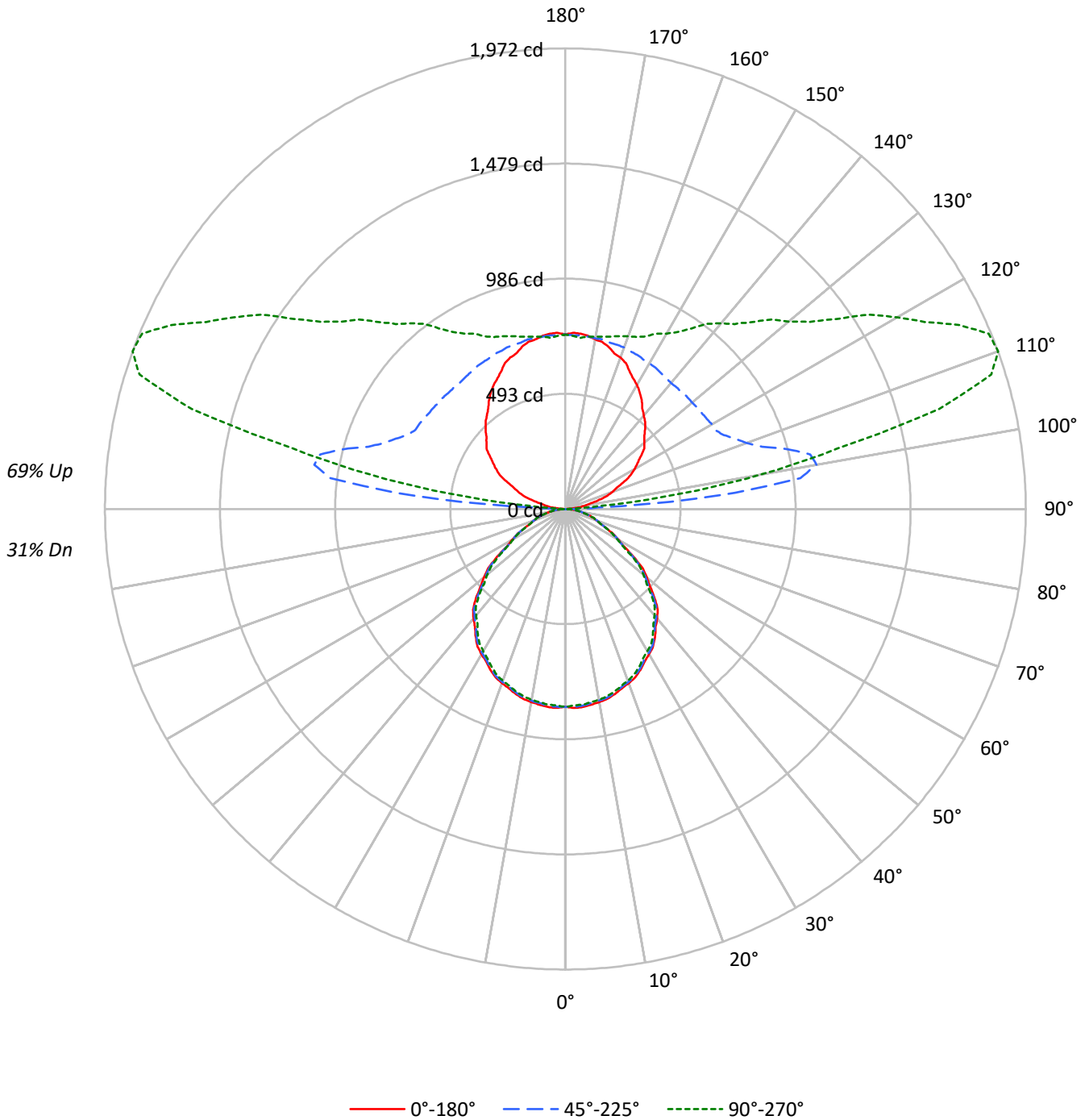
Lumens per Lamp: N/A  
Luminaire Lumens: 6758.1 lumens  
Efficiency: N/A  
Efficacy: 127.8 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 52.9  
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	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°	7819	7819	7819
5°	7889	7829	7788
10°	7864	7810	7768
15°	7830	7781	7739
20°	7790	7740	7683
25°	7736	7684	7594
30°	7652	7598	7488
35°	7540	7473	7366
40°	7367	7288	7157
45°	7067	6943	6801
50°	6538	6380	6255
55°	5707	5577	5459
60°	4809	4768	4674
65°	4159	4174	4144
70°	3820	3839	3839
75°	3668	3668	3697
80°	3454	3491	3454
85°	2784	3091	3091



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.1	1.2
10°-20°	229.3	3.4
20°-30°	345.8	5.1
30°-40°	412.1	6.1
40°-50°	406.3	6.0
50°-60°	310.5	4.6
60°-70°	192.1	2.8
70°-80°	109.1	1.6
80°-90°	33.2	0.5
90°-100°	340.3	5.0
100°-110°	968.4	14.3
110°-120°	927.8	13.7
120°-130°	734.4	10.9
130°-140°	589.4	8.7
140°-150°	461.5	6.8
150°-160°	337.6	5.0
160°-170°	209.1	3.1
170°-180°	71.0	1.1
0°-30°	655.3	9.7
0°-40°	1067.3	15.8
0°-60°	1784.1	26.4
0°-90°	2118.6	31.3
90°-120°	2236.6	33.1
90°-150°	4021.8	59.5
90°-180°	4640.0	68.7
0°-180°	6758.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	848	848	848	848	848	
5°	852	843	845	842	841	81
15°	820	811	815	812	810	231
25°	760	751	755	747	746	350
35°	669	662	664	655	654	418
45°	542	534	532	523	521	415
55°	355	349	347	341	339	318
65°	190	189	191	190	190	193
75°	103	103	103	104	104	109
85°	26	28	29	29	29	31
90°	0	0	0	0	0	3
95°	37	147	659	228	141	42
105°	150	228	987	1743	1657	159
115°	280	338	748	1585	1862	275
125°	395	438	714	1185	1417	353
135°	483	523	706	1001	1132	373
145°	569	599	711	866	944	356
155°	650	666	728	783	815	301
165°	718	721	737	753	764	202
175°	753	748	746	741	736	71
180°	747	747	747	747	747	

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CATALOG NUMBER: SQ4-PR1-100U-050D-92765-1D-UNV-STD-W-4 (5700K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	847.5	847.5	847.5	847.5	847.5
2.5°	852.7	845.3	847.5	845.6	841.6
5°	851.8	842.6	845.3	842.3	840.9
7.5°	845.3	836.1	838.8	835.9	835.1
10°	839.4	830.9	833.6	830.6	829.2
12.5°	833.0	823.9	827.2	823.6	822.2
15°	819.7	811.2	814.6	811.7	810.2
17.5°	805.1	796.0	799.4	796.0	794.2
20°	793.4	784.9	788.3	783.2	782.5
22.5°	780.6	772.0	775.5	768.6	768.5
25°	759.9	750.6	754.8	746.7	746.0
27.5°	735.2	726.6	730.1	721.9	721.0
30°	718.3	709.7	713.2	704.4	702.9
32.5°	699.0	691.0	693.9	685.1	684.2
35°	669.4	661.5	663.5	654.7	654.0
37.5°	635.6	628.5	629.6	620.0	619.3
40°	611.7	604.6	605.1	594.9	594.2
42.5°	585.4	578.3	577.7	567.4	566.7
45°	541.6	534.5	532.1	522.6	521.2
47.5°	491.7	484.5	480.2	472.4	471.4
50°	455.5	448.3	444.5	437.9	435.8
52.5°	416.4	409.2	406.0	400.0	397.8
55°	354.8	349.0	346.7	340.8	339.4
57.5°	296.2	292.4	291.7	286.0	285.4
60°	260.6	258.4	258.4	253.3	253.3
62.5°	230.2	228.7	229.8	226.4	225.8
65°	190.5	189.1	191.2	189.8	189.8
67.5°	159.1	159.1	160.4	159.9	159.9
70°	141.6	141.6	142.3	142.3	142.3
72.5°	125.8	125.3	127.2	127.1	126.6
75°	102.9	102.9	102.9	103.7	103.7
77.5°	80.1	80.3	80.9	80.7	80.1
80°	65.0	65.7	65.7	65.0	65.0
82.5°	49.8	50.5	50.5	50.4	49.8
85°	26.3	27.7	29.2	29.2	29.2
87.5°	7.6	9.9	11.7	11.7	11.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	11.4	60.2	139.7	40.7	30.7
95°	36.9	146.6	658.9	228.0	140.6
97.5°	67.9	171.7	1014.7	726.1	497.6
100°	89.5	186.6	1092.0	1106.1	852.0
102.5°	113.3	202.7	1074.9	1415.8	1193.9
105°	150.5	228.3	986.9	1743.2	1657.1
107.5°	188.3	258.0	884.1	1835.5	1912.1
110°	214.4	279.7	825.0	1800.2	1972.3

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CATALOG NUMBER: SQ4-PR1-100U-050D-92765-1D-UNV-STD-W-4 (5700K)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	239.4	301.3	785.2	1716.7	1962.1
115°	279.7	338.0	748.3	1585.3	1861.6
117.5°	315.2	369.9	726.5	1441.7	1734.4
120°	343.6	389.5	724.2	1359.6	1640.1
122.5°	366.4	412.2	718.5	1287.6	1548.1
125°	394.8	437.8	714.2	1185.3	1417.1
127.5°	425.7	466.0	712.0	1124.1	1315.2
130°	441.6	481.9	708.6	1081.5	1248.2
132.5°	458.7	497.8	708.6	1048.3	1201.6
135°	482.8	523.1	705.7	1001.2	1131.7
137.5°	505.5	544.7	705.4	961.3	1074.1
140°	522.6	562.8	704.3	928.3	1036.6
142.5°	541.9	575.5	707.7	901.9	999.1
145°	569.4	598.6	711.4	866.5	944.3
147.5°	593.0	621.3	717.7	830.8	898.0
150°	613.4	632.9	719.9	819.0	866.2
152.5°	629.3	649.9	722.2	803.0	846.9
155°	650.3	665.6	728.4	783.1	815.1
157.5°	676.5	685.6	729.9	774.1	796.9
160°	690.1	697.1	735.5	767.2	786.7
162.5°	698.1	706.1	736.7	761.4	776.4
165°	718.5	721.3	737.0	752.8	763.9
167.5°	732.4	729.9	743.5	750.7	755.1
170°	737.0	735.6	741.2	742.8	748.3
172.5°	747.2	742.5	744.6	740.5	744.9
175°	752.6	748.4	745.5	741.1	735.5
177.5°	754.9	748.2	744.6	740.1	741.2
180°	746.9	746.9	746.9	746.9	746.9

(END OF REPORT)