

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: P562003

Luminaire Tested: **SQ4-PR1-100U-075D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562003  
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-075D-92765-1D-UNV-STD-W-4 (5000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS  
DOWNLIGHT 750 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**

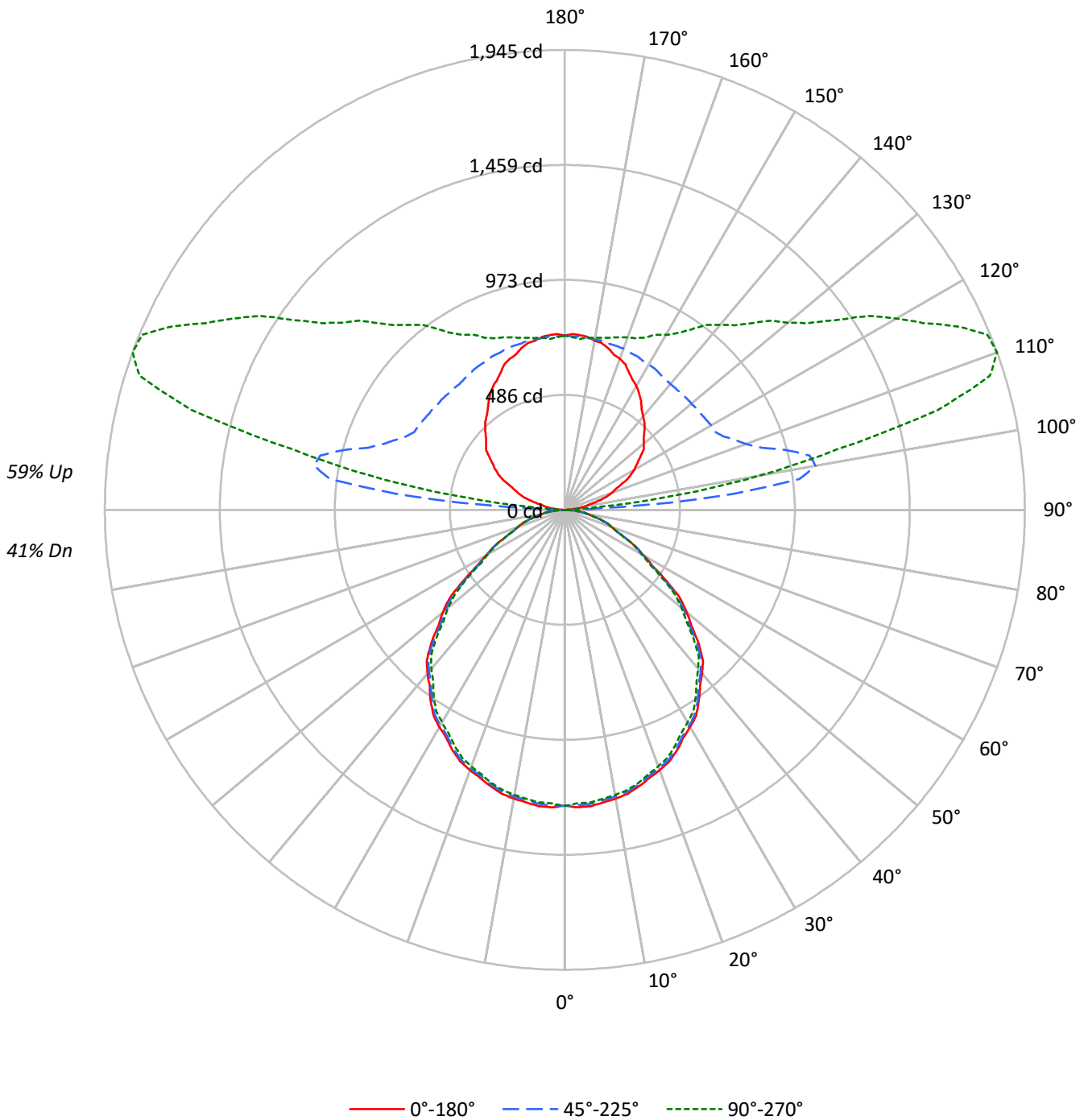
Lumens per Lamp: N/A  
Luminaire Lumens: 7702.6 lumens  
Efficiency: N/A  
Efficacy: 120.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 64.1  
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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	48	48	48	41
1	96	92	88	85	87	84	81	78	69	67	65	55	54	52	42	41	41	35
2	88	80	74	69	80	73	68	64	61	57	54	49	46	44	38	36	35	29
3	80	71	64	58	73	65	59	54	54	49	45	43	40	37	33	31	30	25
4	73	63	55	49	66	58	51	46	48	43	39	39	35	32	30	28	26	22
5	67	56	48	42	61	51	44	39	43	38	34	35	31	28	27	25	22	19
6	62	50	42	37	56	46	39	34	38	33	29	31	27	24	25	22	20	17
7	57	45	37	32	52	42	35	30	35	30	26	28	25	22	22	20	18	15
8	53	41	33	28	48	38	31	26	32	27	23	26	22	19	21	18	16	13
9	49	37	30	25	45	35	28	24	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	18	15	13	11

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

	0°	45°	90°
0°	11546	11546	11546
5°	11649	11559	11500
10°	11612	11532	11471
15°	11561	11490	11428
20°	11503	11430	11344
25°	11422	11346	11213
30°	11299	11218	11057
35°	11132	11034	10877
40°	10878	10761	10567
45°	10434	10252	10042
50°	9654	9422	9236
55°	8426	8236	8062
60°	7100	7041	6901
65°	6141	6165	6117
70°	5641	5670	5670
75°	5418	5418	5458
80°	5095	5154	5095
85°	4107	4563	4563



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.3	1.5
10°-20°	338.6	4.4
20°-30°	510.7	6.6
30°-40°	608.5	7.9
40°-50°	599.9	7.8
50°-60°	458.5	6.0
60°-70°	283.7	3.7
70°-80°	161.2	2.1
80°-90°	49.0	0.6
90°-100°	335.6	4.4
100°-110°	954.8	12.4
110°-120°	914.8	11.9
120°-130°	724.0	9.4
130°-140°	581.1	7.5
140°-150°	455.0	5.9
150°-160°	332.9	4.3
160°-170°	206.2	2.7
170°-180°	70.0	0.9
0°-30°	967.6	12.6
0°-40°	1576.0	20.5
0°-60°	2634.4	34.2
0°-90°	3128.3	40.6
90°-120°	2205.2	28.6
90°-150°	3965.3	51.5
90°-180°	4574.0	59.4
0°-180°	7702.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1251	1251	1251	1251	1251	
5°	1258	1244	1248	1244	1242	119
15°	1210	1198	1203	1198	1196	342
25°	1122	1108	1114	1103	1102	516
35°	988	977	980	967	966	617
45°	800	789	786	772	770	613
55°	524	515	512	503	501	469
65°	281	279	282	280	280	285
75°	152	152	152	153	153	160
85°	39	41	43	43	43	45
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°	1251.4	1251.4	1251.4	1251.4	1251.4
2.5°	1259.1	1248.2	1251.4	1248.6	1242.7
5°	1257.8	1244.1	1248.1	1243.8	1241.7
7.5°	1248.1	1234.6	1238.6	1234.3	1233.0
10°	1239.5	1226.9	1230.9	1226.5	1224.4
12.5°	1230.0	1216.5	1221.4	1216.2	1214.1
15°	1210.4	1197.8	1202.9	1198.5	1196.4
17.5°	1188.8	1175.4	1180.4	1175.4	1172.7
20°	1171.6	1159.0	1164.1	1156.5	1155.4
22.5°	1152.6	1140.0	1145.1	1134.9	1134.7
25°	1122.0	1108.3	1114.5	1102.6	1101.5
27.5°	1085.6	1072.9	1078.0	1065.9	1064.7
30°	1060.6	1047.9	1053.0	1040.1	1037.9
32.5°	1032.1	1020.3	1024.6	1011.6	1010.4
35°	988.4	976.8	979.7	966.8	965.7
37.5°	938.6	928.0	929.7	915.5	914.4
40°	903.2	892.7	893.5	878.4	877.4
42.5°	864.4	853.9	853.0	837.9	836.8
45°	799.7	789.2	785.7	771.7	769.6
47.5°	726.0	715.5	709.0	697.5	696.1
50°	672.6	662.0	656.4	646.6	643.5
52.5°	614.8	604.3	599.5	590.6	587.4
55°	523.8	515.4	512.0	503.3	501.2
57.5°	437.4	431.7	430.7	422.3	421.4
60°	384.8	381.6	381.6	374.0	374.0
62.5°	339.9	337.6	339.3	334.3	333.5
65°	281.3	279.2	282.4	280.2	280.2
67.5°	235.0	235.0	236.9	236.0	236.0
70°	209.1	209.1	210.2	210.2	210.2
72.5°	185.8	185.0	187.8	187.7	186.9
75°	152.0	152.0	152.0	153.1	153.1
77.5°	118.3	118.6	119.4	119.2	118.3
80°	95.9	97.0	97.0	95.9	95.9
82.5°	73.5	74.6	74.6	74.4	73.5
85°	38.8	40.9	43.1	43.1	43.1
87.5°	11.2	14.6	17.2	17.2	16.4
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)