

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: P563571

Luminaire Tested: **SQ4-PP3-100U-050D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563571  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-100U-050D-840-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

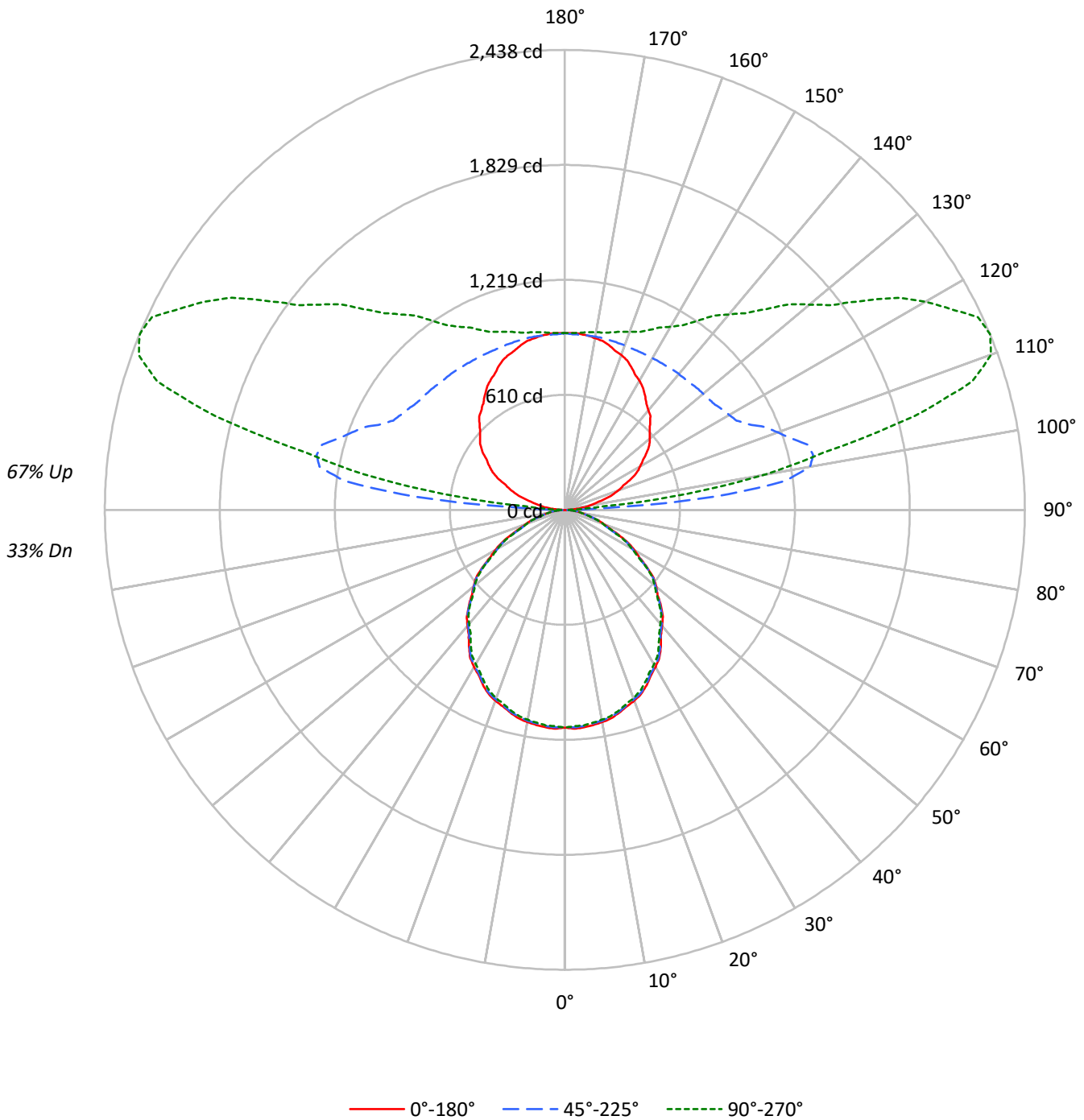
Lumens per Lamp: N/A  
Luminaire Lumens: 9040.4 lumens  
Efficiency: N/A  
Efficacy: 140.6 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 64.3  
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	93	93	93	93	74	74	74	56	56	56	40	40	40	33
1	94	90	86	83	85	81	78	75	65	63	61	50	48	47	36	35	34	28
2	86	79	73	68	77	71	66	62	57	53	50	44	41	39	32	30	29	23
3	78	69	62	56	70	63	57	52	50	46	42	39	36	33	28	26	25	20
4	71	61	53	48	64	55	49	44	45	40	36	34	31	29	25	23	21	17
5	66	54	47	41	59	49	43	37	40	35	31	31	27	25	23	20	19	15
6	60	49	41	35	54	44	37	32	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	19	16	15	12
8	52	40	32	27	46	36	30	25	29	24	21	23	20	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	15	12	11	9

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

	0°	45°	90°
0°	7097	7097	7097
5°	7150	7106	7081
10°	7138	7087	7056
15°	7091	7052	7013
20°	7044	7004	6951
25°	6960	6912	6843
30°	6831	6795	6709
35°	6652	6607	6523
40°	6439	6399	6325
45°	6264	6219	6158
50°	6039	6000	5942
55°	5726	5650	5607
60°	5213	5063	5039
65°	4592	4401	4387
70°	3965	3802	3802
75°	3413	3365	3318
80°	3011	3046	2972
85°	2357	2569	2569



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.1	1.2
10°-20°	311.6	3.4
20°-30°	466.7	5.2
30°-40°	547.4	6.1
40°-50°	549.1	6.1
50°-60°	468.4	5.2
60°-70°	305.5	3.4
70°-80°	153.3	1.7
80°-90°	44.3	0.5
90°-100°	438.6	4.9
100°-110°	1210.8	13.4
110°-120°	1248.7	13.8
120°-130°	1003.5	11.1
130°-140°	788.6	8.7
140°-150°	604.8	6.7
150°-160°	434.7	4.8
160°-170°	265.8	2.9
170°-180°	89.6	1.0
0°-30°	887.4	9.8
0°-40°	1434.7	15.9
0°-60°	2452.3	27.1
0°-90°	2955.4	32.7
90°-120°	2898.1	32.1
90°-150°	5295.0	58.6
90°-180°	6085.0	67.3
0°-180°	9040.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1154	1154	1154	1154	1154	
5°	1158	1147	1151	1147	1147	110
15°	1114	1103	1107	1103	1101	314
25°	1026	1014	1018	1009	1008	472
35°	886	877	880	870	869	553
45°	720	715	715	708	708	554
55°	534	532	527	524	523	475
65°	316	310	302	300	301	315
75°	144	144	142	141	140	156
85°	33	36	36	36	36	39
90°	3	6	12	14	15	6
95°	64	237	796	327	213	69
105°	216	333	1332	2034	1915	230
115°	387	467	1073	2124	2416	380
125°	530	604	972	1646	1932	472
135°	638	707	946	1333	1503	494
145°	740	792	934	1135	1221	463
155°	835	862	926	1018	1050	385
165°	904	915	930	967	974	255
175°	936	938	932	946	942	89
180°	936	936	936	936	936	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1153.9	1153.9	1153.9	1153.9	1153.9
2.5°	1161.2	1151.7	1153.9	1152.2	1147.5
5°	1158.0	1147.1	1150.9	1146.9	1146.9
7.5°	1150.1	1138.2	1142.0	1138.0	1137.8
10°	1142.8	1130.9	1134.7	1130.7	1129.7
12.5°	1132.3	1120.4	1125.0	1120.2	1120.0
15°	1113.5	1102.6	1107.4	1103.3	1101.3
17.5°	1092.2	1080.4	1086.2	1080.5	1079.7
20°	1076.1	1064.2	1070.0	1061.9	1061.9
22.5°	1056.6	1044.8	1051.4	1040.9	1040.9
25°	1025.5	1013.6	1018.4	1009.3	1008.3
27.5°	988.5	976.8	981.8	971.5	971.3
30°	961.8	950.9	956.7	945.6	944.6
32.5°	932.7	922.6	926.8	915.6	914.7
35°	885.9	877.0	879.9	869.7	868.7
37.5°	836.8	827.7	830.9	822.2	821.8
40°	802.0	796.1	796.9	789.8	787.8
42.5°	769.6	762.9	763.8	756.7	756.3
45°	720.1	715.1	715.0	707.9	707.9
47.5°	667.5	663.7	662.6	656.8	656.6
50°	631.1	628.1	627.0	621.9	621.0
52.5°	593.0	591.7	588.2	583.9	583.7
55°	534.0	532.0	526.9	523.9	522.9
57.5°	469.9	465.9	460.2	455.7	456.5
60°	423.8	419.8	411.6	409.6	409.6
62.5°	379.3	374.5	366.3	363.5	365.1
65°	315.5	309.6	302.4	300.4	301.4
67.5°	257.7	252.3	244.5	244.5	243.7
70°	220.5	217.5	211.4	211.4	211.4
72.5°	187.3	185.9	181.4	181.4	180.6
75°	143.6	143.6	141.6	140.6	139.6
77.5°	107.6	108.0	107.0	105.9	104.2
80°	85.0	86.9	86.0	84.9	83.9
82.5°	63.9	65.9	65.7	63.9	63.7
85°	33.4	36.3	36.4	36.4	36.4
87.5°	9.5	13.2	15.3	15.7	16.8
90°	3.0	5.9	12.0	13.5	15.0
92.5°	27.0	112.0	200.2	73.1	56.9
95°	64.4	237.3	795.7	327.1	212.8
97.5°	106.7	265.8	1178.7	907.5	657.2
100°	137.9	282.9	1320.1	1329.5	1080.4
102.5°	167.8	302.3	1347.7	1642.6	1406.4
105°	215.8	333.0	1332.1	2033.7	1915.0
107.5°	266.7	371.0	1257.8	2222.3	2265.7
110°	302.7	396.5	1200.3	2262.9	2403.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	335.1	425.3	1146.3	2230.8	2438.3
115°	386.6	467.2	1072.9	2123.9	2415.5
117.5°	431.6	511.8	1024.6	1973.5	2305.2
120°	461.5	540.6	1005.5	1871.7	2205.7
122.5°	490.3	565.9	989.9	1776.6	2093.0
125°	530.5	603.7	972.5	1645.8	1931.5
127.5°	564.6	637.9	962.3	1535.2	1781.7
130°	587.4	660.7	957.5	1467.6	1691.8
132.5°	609.0	678.7	952.7	1410.8	1613.8
135°	638.3	707.2	945.5	1333.0	1502.9
137.5°	671.3	734.0	941.9	1267.7	1412.7
140°	689.3	750.8	939.5	1224.1	1351.6
142.5°	709.7	766.5	937.1	1185.4	1297.7
145°	740.2	791.5	933.5	1134.8	1221.2
147.5°	769.6	814.4	930.2	1092.1	1159.2
150°	791.2	827.8	929.0	1066.6	1120.8
152.5°	808.0	842.2	927.8	1044.8	1089.7
155°	834.6	862.5	926.0	1018.2	1050.4
157.5°	859.2	880.6	926.3	998.8	1020.7
160°	873.6	892.6	927.5	987.8	1004.0
162.5°	885.6	902.3	928.7	978.2	990.8
165°	903.6	915.3	930.5	966.7	974.0
167.5°	917.4	924.4	932.0	959.7	962.0
170°	924.5	930.4	932.0	956.0	956.0
172.5°	930.5	934.1	932.0	951.2	950.0
175°	936.5	938.0	932.0	945.5	942.5
177.5°	938.9	937.8	931.7	940.1	937.7
180°	936.5	936.5	936.5	936.5	936.5

(END OF REPORT)