

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: P563583

Luminaire Tested: **SQ4-PP3-100U-050D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563583  
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-940-1D-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, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

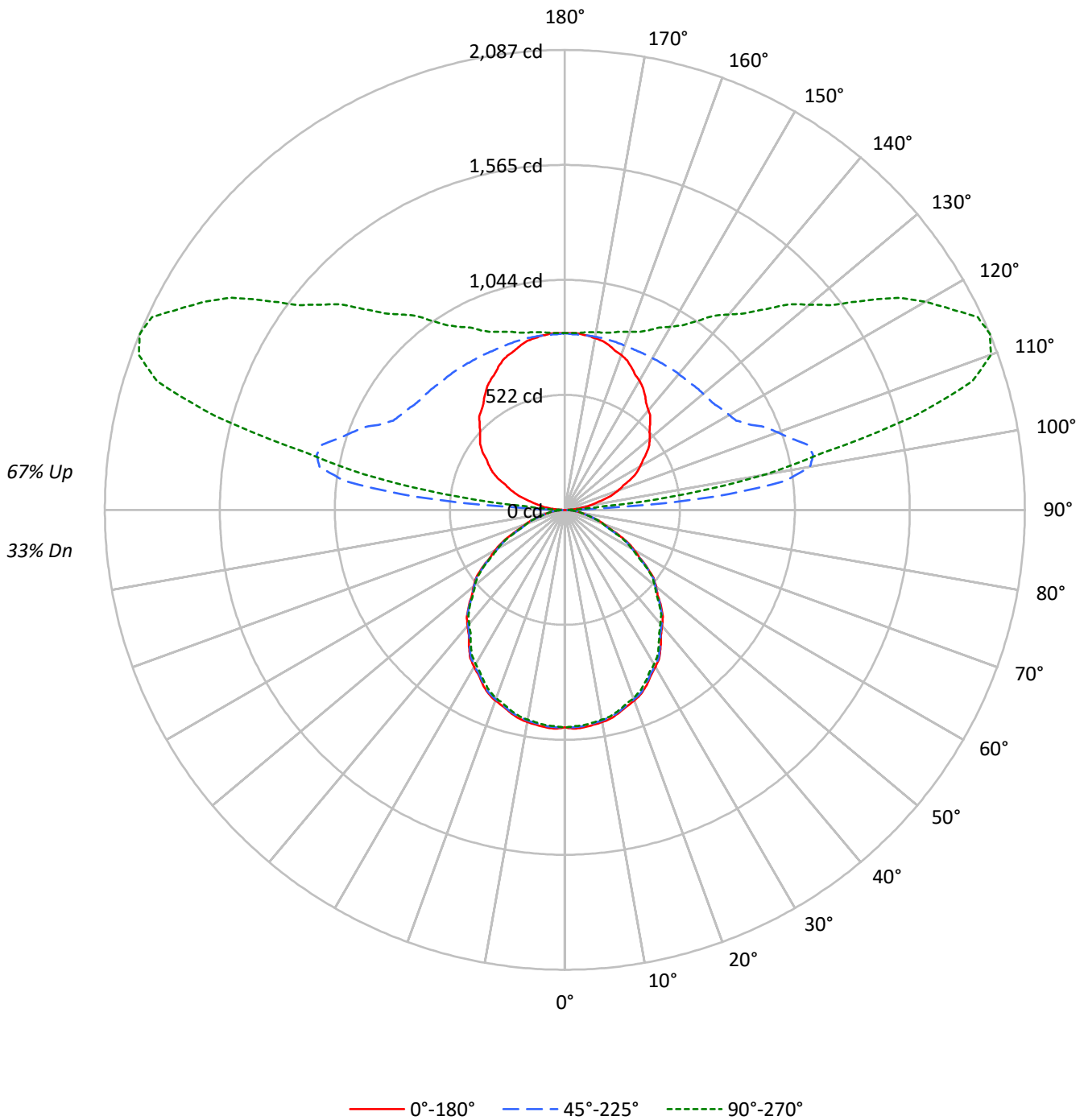
Lumens per Lamp: N/A  
Luminaire Lumens: 7737.5 lumens  
Efficiency: N/A  
Efficacy: 120.3 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Indirect

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°	6075	6075	6075
5°	6119	6082	6061
10°	6109	6066	6038
15°	6068	6035	6002
20°	6028	5994	5949
25°	5957	5915	5857
30°	5847	5815	5742
35°	5693	5654	5583
40°	5511	5477	5414
45°	5361	5324	5270
50°	5168	5136	5086
55°	4901	4836	4799
60°	4462	4334	4313
65°	3931	3767	3753
70°	3394	3253	3253
75°	2921	2880	2838
80°	2575	2607	2543
85°	2018	2202	2202



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.4	1.2
10°-20°	266.7	3.4
20°-30°	399.4	5.2
30°-40°	468.5	6.1
40°-50°	470.0	6.1
50°-60°	400.9	5.2
60°-70°	261.5	3.4
70°-80°	131.2	1.7
80°-90°	38.0	0.5
90°-100°	375.4	4.9
100°-110°	1036.3	13.4
110°-120°	1068.7	13.8
120°-130°	858.8	11.1
130°-140°	674.9	8.7
140°-150°	517.7	6.7
150°-160°	372.0	4.8
160°-170°	227.5	2.9
170°-180°	76.7	1.0
0°-30°	759.5	9.8
0°-40°	1227.9	15.9
0°-60°	2098.8	27.1
0°-90°	2529.4	32.7
90°-120°	2480.4	32.1
90°-150°	4531.8	58.6
90°-180°	5208.0	67.3
0°-180°	7737.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	988	988	988	988	988	
5°	991	982	985	982	982	94
15°	953	944	948	944	943	269
25°	878	868	872	864	863	404
35°	758	751	753	744	744	474
45°	616	612	612	606	606	475
55°	457	455	451	448	448	406
65°	270	265	259	257	258	270
75°	123	123	121	120	119	133
85°	29	31	31	31	31	34
90°	3	5	10	12	13	5
95°	55	203	681	280	182	59
105°	185	285	1140	1741	1639	196
115°	331	400	918	1818	2067	325
125°	454	517	832	1409	1653	404
135°	546	605	809	1141	1286	423
145°	634	677	799	971	1045	397
155°	714	738	793	871	899	329
165°	773	783	796	827	834	218
175°	802	803	798	809	807	76
180°	802	802	802	802	802	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	987.6	987.6	987.6	987.6	987.6
2.5°	993.8	985.7	987.6	986.1	982.1
5°	991.1	981.8	985.0	981.6	981.6
7.5°	984.3	974.2	977.4	973.9	973.8
10°	978.1	967.9	971.2	967.7	966.8
12.5°	969.1	958.9	962.9	958.7	958.5
15°	953.0	943.7	947.8	944.3	942.6
17.5°	934.8	924.7	929.6	924.8	924.1
20°	921.0	910.8	915.8	908.9	908.9
22.5°	904.3	894.2	899.8	890.8	890.8
25°	877.7	867.5	871.6	863.8	863.0
27.5°	846.0	836.0	840.3	831.5	831.3
30°	823.2	813.8	818.8	809.3	808.4
32.5°	798.2	789.6	793.2	783.7	782.8
35°	758.2	750.6	753.0	744.4	743.5
37.5°	716.2	708.4	711.2	703.7	703.4
40°	686.4	681.3	682.1	676.0	674.3
42.5°	658.7	652.9	653.7	647.6	647.3
45°	616.3	612.1	612.0	605.9	605.9
47.5°	571.3	568.1	567.1	562.1	561.9
50°	540.1	537.6	536.7	532.3	531.5
52.5°	507.6	506.4	503.4	499.8	499.6
55°	457.0	455.3	451.0	448.3	447.5
57.5°	402.1	398.8	393.8	390.0	390.7
60°	362.7	359.3	352.3	350.6	350.6
62.5°	324.6	320.5	313.5	311.1	312.5
65°	270.1	265.0	258.8	257.1	257.9
67.5°	220.5	216.0	209.3	209.3	208.6
70°	188.7	186.2	180.9	180.9	180.9
72.5°	160.3	159.1	155.3	155.3	154.6
75°	122.9	122.9	121.2	120.3	119.4
77.5°	92.1	92.4	91.6	90.7	89.2
80°	72.7	74.4	73.6	72.7	71.8
82.5°	54.7	56.4	56.3	54.7	54.5
85°	28.6	31.1	31.2	31.2	31.2
87.5°	8.1	11.3	13.1	13.4	14.3
90°	2.6	5.1	10.3	11.6	12.8
92.5°	23.1	95.8	171.3	62.5	48.7
95°	55.1	203.1	681.0	279.9	182.1
97.5°	91.3	227.5	1008.8	776.7	562.5
100°	118.0	242.1	1129.9	1137.8	924.7
102.5°	143.6	258.8	1153.5	1405.9	1203.7
105°	184.7	285.0	1140.1	1740.6	1639.0
107.5°	228.3	317.6	1076.5	1902.0	1939.1
110°	259.1	339.3	1027.3	1936.7	2057.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	286.8	364.0	981.1	1909.3	2086.8
115°	330.9	399.8	918.3	1817.8	2067.4
117.5°	369.4	438.1	877.0	1689.1	1973.0
120°	395.0	462.7	860.5	1601.9	1887.8
122.5°	419.6	484.3	847.2	1520.5	1791.4
125°	454.0	516.7	832.3	1408.6	1653.1
127.5°	483.2	545.9	823.6	1313.9	1524.9
130°	502.7	565.4	819.5	1256.1	1447.9
132.5°	521.2	580.9	815.4	1207.4	1381.2
135°	546.3	605.3	809.2	1140.9	1286.3
137.5°	574.6	628.2	806.2	1085.0	1209.1
140°	589.9	642.6	804.1	1047.7	1156.8
142.5°	607.4	656.0	802.1	1014.6	1110.6
145°	633.5	677.4	799.0	971.2	1045.2
147.5°	658.7	697.1	796.2	934.7	992.1
150°	677.1	708.5	795.1	912.9	959.3
152.5°	691.5	720.9	794.1	894.2	932.6
155°	714.3	738.2	792.6	871.4	899.0
157.5°	735.4	753.7	792.8	854.8	873.6
160°	747.7	764.0	793.9	845.5	859.3
162.5°	757.9	772.2	794.9	837.2	848.0
165°	773.3	783.4	796.4	827.3	833.6
167.5°	785.1	791.2	797.7	821.3	823.4
170°	791.3	796.3	797.7	818.2	818.2
172.5°	796.4	799.4	797.7	814.1	813.1
175°	801.5	802.8	797.7	809.2	806.7
177.5°	803.6	802.6	797.4	804.6	802.6
180°	801.5	801.5	801.5	801.5	801.5

(END OF REPORT)