

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: P563631

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

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563631  
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-100D-940-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

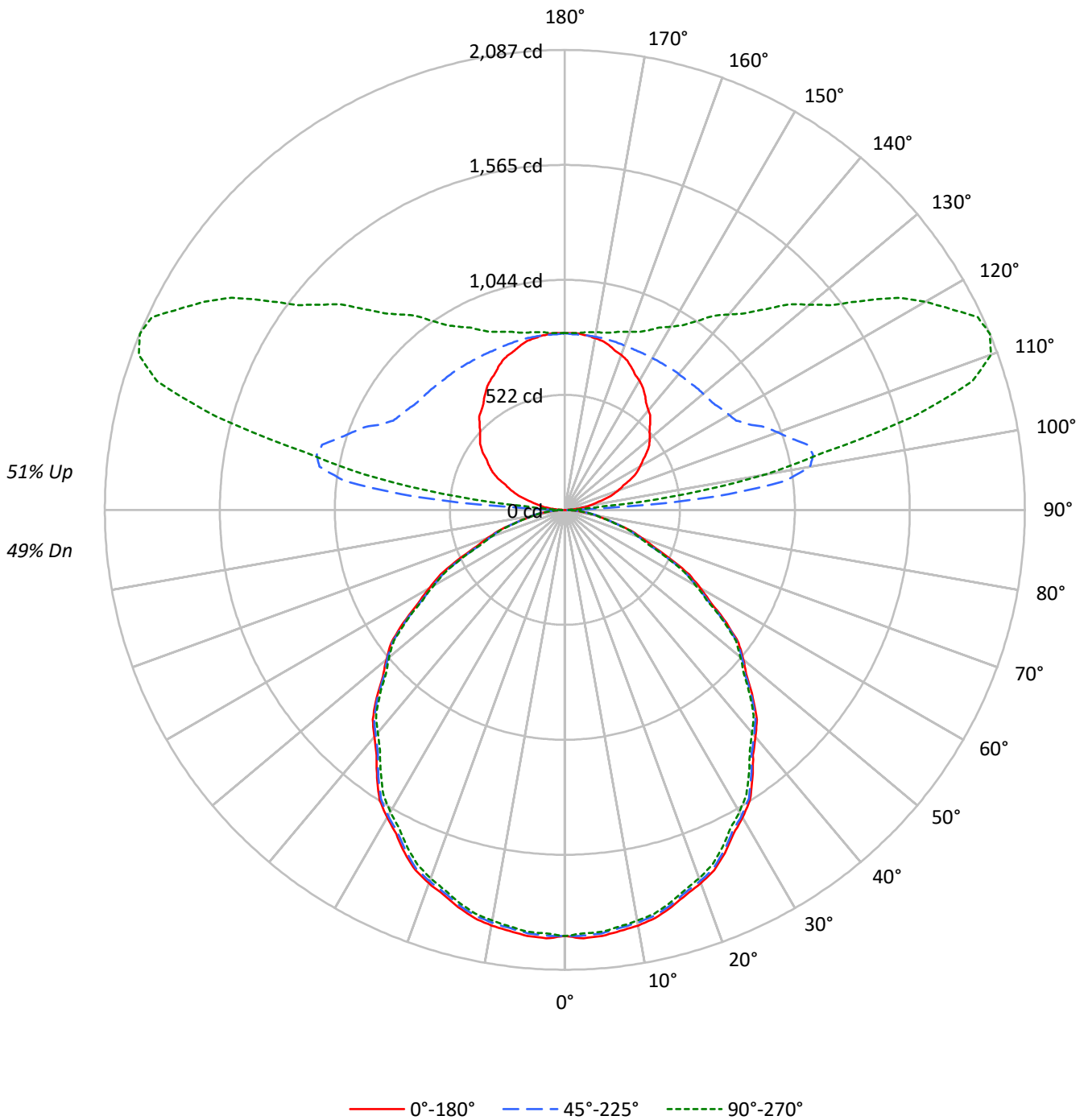
Lumens per Lamp: N/A  
Luminaire Lumens: 10159.9 lumens  
Efficiency: N/A  
Efficacy: 109.4 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 92.9  
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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	98	93	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41
2	89	82	76	71	82	76	70	66	64	60	57	53	50	48	43	41	40	35
3	81	72	65	59	75	67	60	55	57	52	48	47	44	41	38	36	34	30
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	32	29	26
5	68	57	49	43	63	53	46	40	45	40	35	38	34	30	31	28	26	22
6	63	51	43	37	58	47	40	35	41	35	31	34	30	27	28	25	23	20
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	22	20	17
8	54	42	34	29	50	39	32	27	34	28	24	28	24	21	24	20	18	16
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

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

	0°	45°	90°
0°	11896	11896	11896
5°	11984	11910	11868
10°	11964	11879	11826
15°	11884	11819	11755
20°	11806	11739	11650
25°	11665	11585	11469
30°	11449	11389	11244
35°	11150	11073	10933
40°	10793	10725	10603
45°	10498	10424	10322
50°	10121	10057	9959
55°	9598	9470	9398
60°	8737	8487	8445
65°	7698	7376	7351
70°	6645	6372	6372
75°	5720	5639	5559
80°	5044	5104	4984
85°	3945	4305	4305



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	182.9	1.8
10°-20°	522.2	5.1
20°-30°	782.2	7.7
30°-40°	917.5	9.0
40°-50°	920.3	9.1
50°-60°	785.1	7.7
60°-70°	512.0	5.0
70°-80°	256.9	2.5
80°-90°	72.7	0.7
90°-100°	375.4	3.7
100°-110°	1036.3	10.2
110°-120°	1068.7	10.5
120°-130°	858.8	8.5
130°-140°	674.9	6.6
140°-150°	517.7	5.1
150°-160°	372.0	3.7
160°-170°	227.5	2.2
170°-180°	76.7	0.8
0°-30°	1487.3	14.6
0°-40°	2404.8	23.7
0°-60°	4110.2	40.5
0°-90°	4951.9	48.7
90°-120°	2480.4	24.4
90°-150°	4531.8	44.6
90°-180°	5208.0	51.3
0°-180°	10159.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1934	1934	1934	1934	1934	
5°	1941	1923	1929	1922	1922	184
15°	1866	1848	1856	1849	1846	527
25°	1719	1699	1707	1692	1690	790
35°	1485	1470	1475	1458	1456	928
45°	1207	1199	1198	1187	1187	929
55°	895	892	883	878	876	795
65°	529	519	507	504	505	528
75°	241	241	237	236	234	261
85°	56	61	61	61	61	66
90°	3	5	10	12	13	6
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°	1934.1	1934.1	1934.1	1934.1	1934.1
2.5°	1946.3	1930.4	1934.1	1931.2	1923.3
5°	1940.9	1922.7	1929.0	1922.2	1922.2
7.5°	1927.7	1907.8	1914.1	1907.3	1907.0
10°	1915.5	1895.6	1901.9	1895.1	1893.4
12.5°	1897.8	1877.9	1885.6	1877.5	1877.1
15°	1866.3	1848.1	1856.1	1849.3	1846.0
17.5°	1830.7	1810.8	1820.5	1811.0	1809.7
20°	1803.6	1783.7	1793.4	1779.8	1779.8
22.5°	1771.0	1751.1	1762.2	1744.6	1744.6
25°	1718.8	1698.9	1707.0	1691.7	1690.0
27.5°	1656.8	1637.2	1645.6	1628.3	1628.0
30°	1612.0	1593.8	1603.6	1584.9	1583.2
32.5°	1563.2	1546.3	1553.4	1534.7	1533.0
35°	1484.9	1470.0	1474.7	1457.7	1456.1
37.5°	1402.5	1387.3	1392.7	1378.1	1377.4
40°	1344.2	1334.3	1335.7	1323.8	1320.5
42.5°	1290.0	1278.7	1280.1	1268.3	1267.6
45°	1206.9	1198.6	1198.4	1186.6	1186.6
47.5°	1118.8	1112.5	1110.6	1100.8	1100.5
50°	1057.7	1052.8	1051.0	1042.4	1040.8
52.5°	994.0	991.7	985.9	978.7	978.4
55°	895.0	891.7	883.1	878.0	876.4
57.5°	787.5	780.9	771.3	763.8	765.2
60°	710.2	703.6	689.9	686.5	686.5
62.5°	635.7	627.7	614.0	609.3	611.9
65°	528.9	518.9	506.8	503.5	505.1
67.5°	431.9	423.0	409.9	409.8	408.5
70°	369.5	364.6	354.3	354.3	354.3
72.5°	313.9	311.6	304.1	304.1	302.7
75°	240.7	240.7	237.3	235.6	233.9
77.5°	180.4	181.0	179.3	177.6	174.6
80°	142.4	145.7	144.1	142.4	140.7
82.5°	107.1	110.4	110.2	107.1	106.8
85°	55.9	60.9	61.0	61.0	61.0
87.5°	15.4	21.2	23.7	24.0	25.6
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)