

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: P563624

Luminaire Tested: **SQ4-PP3-100U-100D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563624
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-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

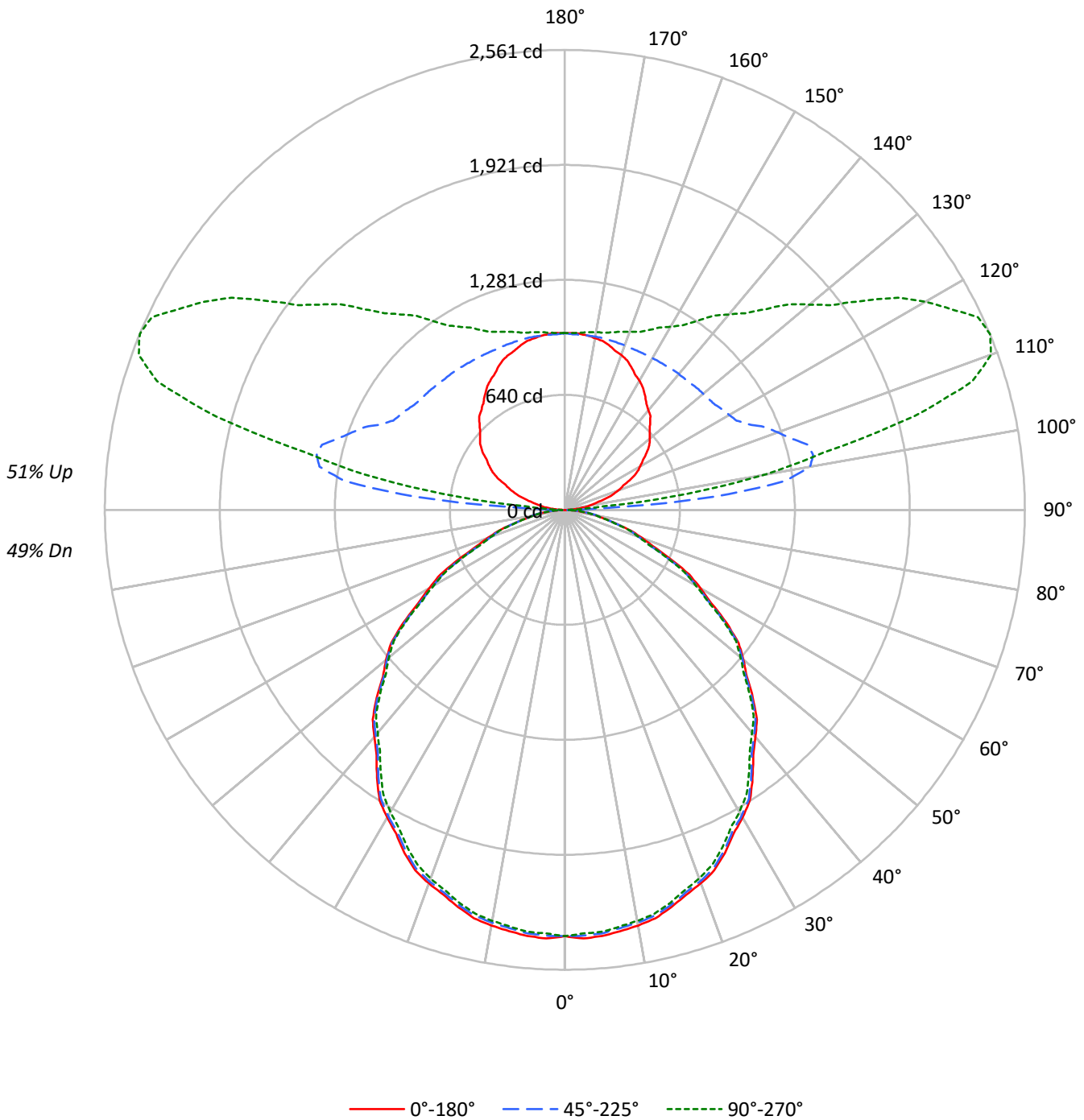
Lumens per Lamp: N/A
Luminaire Lumens: 12469.6 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 121.2
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°	10951	10951	10951
5°	11031	10963	10925
10°	11012	10934	10886
15°	10940	10880	10820
20°	10867	10806	10724
25°	10738	10664	10558
30°	10539	10484	10350
35°	10264	10193	10064
40°	9935	9872	9760
45°	9664	9596	9501
50°	9317	9257	9168
55°	8835	8717	8651
60°	8042	7812	7774
65°	7085	6791	6768
70°	6117	5864	5864
75°	5265	5192	5117
80°	4644	4697	4588
85°	3636	3964	3964



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.5	1.8
10°-20°	640.9	5.1
20°-30°	960.0	7.7
30°-40°	1126.0	9.0
40°-50°	1129.6	9.1
50°-60°	963.6	7.7
60°-70°	628.4	5.0
70°-80°	315.3	2.5
80°-90°	89.3	0.7
90°-100°	460.7	3.7
100°-110°	1271.9	10.2
110°-120°	1311.7	10.5
120°-130°	1054.1	8.5
130°-140°	828.4	6.6
140°-150°	635.3	5.1
150°-160°	456.6	3.7
160°-170°	279.2	2.2
170°-180°	94.1	0.8
0°-30°	1825.4	14.6
0°-40°	2951.4	23.7
0°-60°	5044.6	40.5
0°-90°	6077.6	48.7
90°-120°	3044.3	24.4
90°-150°	5562.0	44.6
90°-180°	6392.0	51.3
0°-180°	12469.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2374	2374	2374	2374	2374	
5°	2382	2360	2368	2359	2359	226
15°	2291	2268	2278	2270	2266	646
25°	2110	2085	2095	2076	2074	970
35°	1822	1804	1810	1789	1787	1138
45°	1481	1471	1471	1456	1456	1141
55°	1098	1094	1084	1078	1076	976
65°	649	637	622	618	620	648
75°	295	295	291	289	287	321
85°	69	75	75	75	75	81
90°	3	6	13	14	16	7
95°	68	249	836	344	224	72
105°	227	350	1399	2136	2012	241
115°	406	491	1127	2231	2537	399
125°	557	634	1022	1729	2029	496
135°	670	743	993	1400	1579	519
145°	778	831	981	1192	1283	487
155°	877	906	973	1070	1103	404
165°	949	962	978	1015	1023	268
175°	984	985	979	993	990	93
180°	984	984	984	984	984	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2373.8	2373.8	2373.8	2373.8	2373.8
2.5°	2388.8	2369.2	2373.8	2370.2	2360.5
5°	2382.1	2359.7	2367.5	2359.2	2359.2
7.5°	2365.9	2341.5	2349.2	2340.9	2340.5
10°	2350.9	2326.5	2334.3	2325.9	2323.9
12.5°	2329.3	2304.9	2314.3	2304.3	2303.9
15°	2290.6	2268.2	2278.1	2269.7	2265.6
17.5°	2246.9	2222.5	2234.4	2222.7	2221.1
20°	2213.6	2189.2	2201.1	2184.5	2184.5
22.5°	2173.7	2149.2	2162.8	2141.2	2141.2
25°	2109.6	2085.2	2095.0	2076.2	2074.2
27.5°	2033.4	2009.4	2019.7	1998.5	1998.1
30°	1978.5	1956.1	1968.1	1945.2	1943.1
32.5°	1918.6	1897.8	1906.5	1883.6	1881.6
35°	1822.5	1804.2	1810.0	1789.1	1787.1
37.5°	1721.4	1702.6	1709.3	1691.4	1690.6
40°	1649.8	1637.6	1639.4	1624.7	1620.7
42.5°	1583.2	1569.4	1571.2	1556.6	1555.8
45°	1481.3	1471.1	1470.9	1456.3	1456.3
47.5°	1373.1	1365.4	1363.1	1351.0	1350.6
50°	1298.2	1292.1	1289.9	1279.4	1277.4
52.5°	1220.0	1217.1	1210.0	1201.2	1200.8
55°	1098.5	1094.4	1083.9	1077.6	1075.6
57.5°	966.6	958.4	946.6	937.5	939.1
60°	871.7	863.6	846.7	842.6	842.6
62.5°	780.2	770.4	753.5	747.8	751.0
65°	649.1	636.9	622.1	617.9	620.0
67.5°	530.1	519.1	503.1	503.0	501.4
70°	453.5	447.4	434.8	434.8	434.8
72.5°	385.3	382.5	373.2	373.2	371.6
75°	295.4	295.4	291.3	289.1	287.1
77.5°	221.4	222.2	220.1	217.9	214.3
80°	174.8	178.8	176.8	174.7	172.7
82.5°	131.5	135.6	135.2	131.5	131.1
85°	68.7	74.8	74.9	74.9	74.9
87.5°	18.9	26.1	29.1	29.5	31.4
90°	3.1	6.2	12.6	14.2	15.7
92.5°	28.3	117.6	210.3	76.7	59.8
95°	67.7	249.3	835.8	343.6	223.5
97.5°	112.1	279.2	1238.1	953.2	690.4
100°	144.8	297.2	1386.7	1396.5	1134.9
102.5°	176.3	317.6	1415.7	1725.5	1477.4
105°	226.7	349.8	1399.3	2136.3	2011.6
107.5°	280.2	389.8	1321.2	2334.4	2379.9
110°	318.0	416.5	1260.8	2377.0	2524.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	352.0	446.8	1204.1	2343.3	2561.3
115°	406.1	490.7	1127.0	2231.1	2537.3
117.5°	453.3	537.7	1076.3	2073.0	2421.5
120°	484.8	567.9	1056.2	1966.1	2317.0
122.5°	515.0	594.4	1039.8	1866.2	2198.6
125°	557.2	634.2	1021.5	1728.8	2028.9
127.5°	593.1	670.0	1010.8	1612.7	1871.5
130°	617.0	694.0	1005.8	1541.6	1777.1
132.5°	639.7	712.9	1000.8	1481.9	1695.2
135°	670.5	742.9	993.2	1400.2	1578.8
137.5°	705.2	771.0	989.4	1331.6	1484.0
140°	724.1	788.7	986.9	1285.9	1419.8
142.5°	745.5	805.2	984.4	1245.2	1363.1
145°	777.6	831.4	980.6	1192.0	1282.8
147.5°	808.4	855.5	977.2	1147.2	1217.7
150°	831.1	869.6	975.9	1120.4	1177.4
152.5°	848.7	884.7	974.6	1097.5	1144.6
155°	876.7	906.0	972.7	1069.5	1103.4
157.5°	902.5	925.0	973.1	1049.1	1072.2
160°	917.7	937.7	974.3	1037.7	1054.6
162.5°	930.3	947.8	975.6	1027.5	1040.7
165°	949.1	961.5	977.5	1015.4	1023.1
167.5°	963.6	971.0	979.0	1008.1	1010.5
170°	971.2	977.3	979.0	1004.2	1004.2
172.5°	977.5	981.2	979.0	999.2	997.9
175°	983.8	985.3	979.0	993.1	990.1
177.5°	986.3	985.1	978.7	987.5	985.0
180°	983.8	983.8	983.8	983.8	983.8

(END OF REPORT)