

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: P564296

Luminaire Tested: **SQ4-PR1-100U-100D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564296
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-100D-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

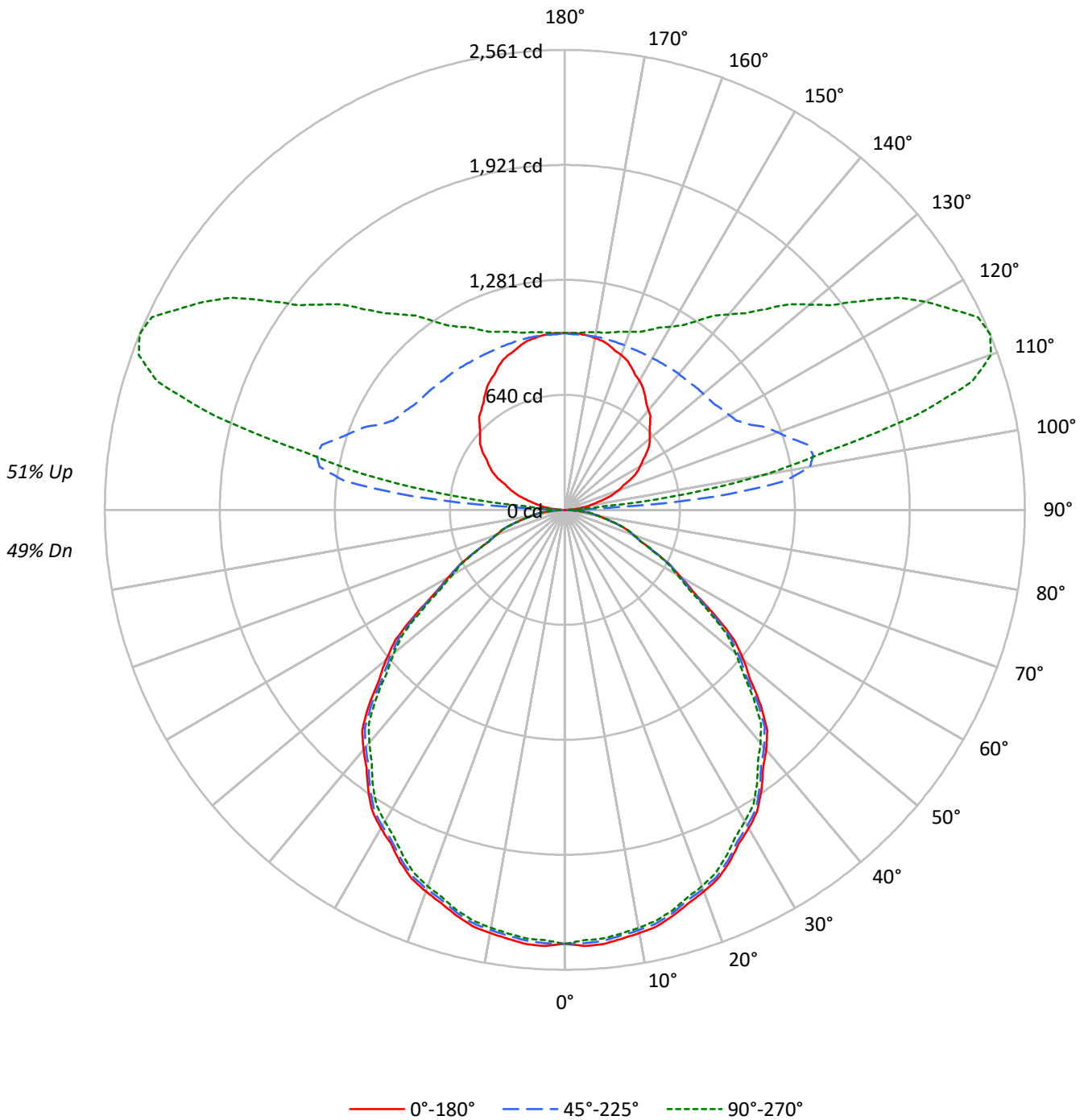
Lumens per Lamp: N/A
Luminaire Lumens: 12433.7 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

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	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	94	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41				
2	89	82	76	71	82	76	71	66	64	60	57	53	51	48	43	42	40	35				
3	82	72	65	59	75	67	61	56	57	52	48	47	44	41	39	36	34	30				
4	75	64	56	50	69	59	53	47	51	45	41	42	39	35	35	32	30	26				
5	69	57	49	43	63	53	46	41	45	40	36	38	34	31	31	28	26	23				
6	63	51	43	38	58	48	41	36	41	35	31	34	30	27	28	25	23	20				
7	59	46	39	33	54	43	36	31	37	32	28	31	27	24	26	23	20	18				
8	54	42	34	29	50	39	32	28	34	28	25	29	24	21	24	21	18	16				
9	51	38	31	26	47	36	29	25	31	26	22	26	22	19	22	19	17	14				
10	47	35	28	23	44	33	27	22	29	23	20	24	20	17	20	17	15	13				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11145	11145	11145
5°	11246	11159	11101
10°	11210	11132	11073
15°	11161	11091	11031
20°	11105	11033	10951
25°	11026	10952	10825
30°	10907	10830	10674
35°	10746	10653	10500
40°	10501	10389	10201
45°	10074	9897	9693
50°	9319	9095	8916
55°	8134	7949	7782
60°	6854	6797	6662
65°	5928	5951	5905
70°	5445	5473	5473
75°	5229	5229	5267
80°	4920	4976	4920
85°	3964	4404	4404



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.5	1.8
10°-20°	653.7	5.3
20°-30°	985.9	7.9
30°-40°	1174.7	9.4
40°-50°	1158.2	9.3
50°-60°	885.1	7.1
60°-70°	547.8	4.4
70°-80°	311.1	2.5
80°-90°	96.7	0.8
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	6.7
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°	1868.1	15.0
0°-40°	3042.8	24.5
0°-60°	5086.1	40.9
0°-90°	6041.7	48.6
90°-120°	3044.3	24.5
90°-150°	5562.0	44.7
90°-180°	6392.0	51.4
0°-180°	12433.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2416	2416	2416	2416	2416	
5°	2428	2402	2410	2401	2397	230
15°	2337	2312	2322	2314	2310	659
25°	2166	2140	2152	2129	2127	997
35°	1908	1886	1892	1867	1864	1191
45°	1544	1524	1517	1490	1486	1183
55°	1011	995	988	972	968	906
65°	543	539	545	541	541	550
75°	293	293	293	296	296	310
85°	75	79	83	83	83	87
90°	3	6	13	14	16	8
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°	2416.0	2416.0	2416.0	2416.0	2416.0
2.5°	2430.9	2409.8	2416.0	2410.7	2399.3
5°	2428.5	2402.0	2409.7	2401.3	2397.2
7.5°	2409.7	2383.7	2391.4	2383.0	2380.6
10°	2393.1	2368.7	2376.4	2368.0	2363.9
12.5°	2374.8	2348.7	2358.1	2348.0	2344.0
15°	2336.9	2312.5	2322.3	2313.9	2309.8
17.5°	2295.3	2269.2	2279.0	2269.3	2264.1
20°	2262.0	2237.6	2247.4	2232.8	2230.8
22.5°	2225.4	2200.9	2210.8	2191.2	2190.8
25°	2166.3	2139.8	2151.7	2128.8	2126.7
27.5°	2095.9	2071.5	2081.4	2058.0	2055.5
30°	2047.6	2023.2	2033.1	2008.0	2003.9
32.5°	1992.7	1969.9	1978.1	1953.1	1950.7
35°	1908.2	1885.8	1891.6	1866.6	1864.5
37.5°	1812.1	1791.7	1795.0	1767.5	1765.5
40°	1743.8	1723.5	1725.1	1695.9	1693.9
42.5°	1668.9	1648.6	1646.9	1617.7	1615.6
45°	1544.1	1523.7	1517.0	1489.9	1485.8
47.5°	1401.7	1381.4	1368.8	1346.7	1343.9
50°	1298.5	1278.2	1267.3	1248.4	1242.3
52.5°	1187.0	1166.6	1157.4	1140.2	1134.1
55°	1011.3	995.1	988.4	971.7	967.6
57.5°	844.4	833.5	831.5	815.3	813.6
60°	742.9	736.8	736.7	722.1	722.1
62.5°	656.3	651.9	655.1	645.5	643.8
65°	543.1	539.1	545.2	541.0	541.0
67.5°	453.6	453.6	457.4	455.7	455.7
70°	403.7	403.7	405.8	405.8	405.8
72.5°	358.8	357.1	362.5	362.5	360.8
75°	293.4	293.4	293.4	295.5	295.5
77.5°	228.5	228.9	230.6	230.1	228.5
80°	185.2	187.2	187.3	185.2	185.2
82.5°	141.9	144.0	144.0	143.5	141.9
85°	74.9	79.0	83.2	83.2	83.2
87.5°	22.3	29.4	35.8	36.1	34.8
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)