

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: P563627

Luminaire Tested: **SQ4-PP3-100U-100D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563627
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-935-1D-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

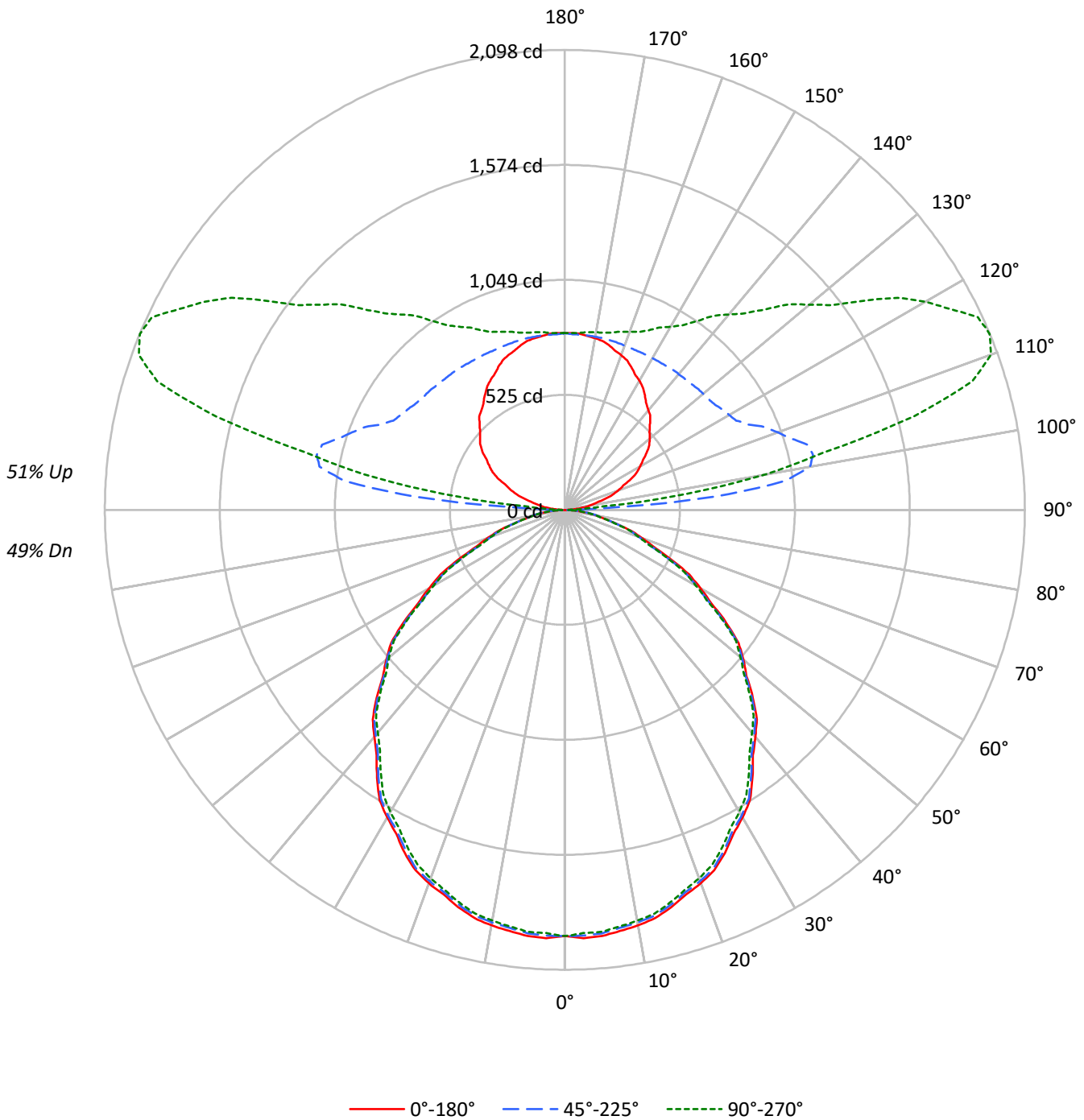
Lumens per Lamp: N/A
Luminaire Lumens: 10211.8 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

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°	11957	11957	11957
5°	12045	11971	11929
10°	12024	11939	11886
15°	11945	11880	11815
20°	11866	11799	11709
25°	11725	11644	11528
30°	11508	11447	11302
35°	11207	11130	10989
40°	10848	10780	10656
45°	10552	10477	10374
50°	10173	10108	10010
55°	9647	9519	9445
60°	8782	8530	8488
65°	7737	7414	7389
70°	6679	6404	6404
75°	5749	5668	5587
80°	5069	5129	5009
85°	3966	4326	4326



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.8	1.8
10°-20°	524.9	5.1
20°-30°	786.2	7.7
30°-40°	922.2	9.0
40°-50°	925.0	9.1
50°-60°	789.1	7.7
60°-70°	514.7	5.0
70°-80°	258.2	2.5
80°-90°	73.1	0.7
90°-100°	377.3	3.7
100°-110°	1041.6	10.2
110°-120°	1074.2	10.5
120°-130°	863.2	8.5
130°-140°	678.4	6.6
140°-150°	520.3	5.1
150°-160°	373.9	3.7
160°-170°	228.7	2.2
170°-180°	77.1	0.8
0°-30°	1494.9	14.6
0°-40°	2417.0	23.7
0°-60°	4131.2	40.5
0°-90°	4977.2	48.7
90°-120°	2493.0	24.4
90°-150°	4554.9	44.6
90°-180°	5235.0	51.3
0°-180°	10211.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1944	1944	1944	1944	1944	
5°	1951	1932	1939	1932	1932	185
15°	1876	1858	1866	1859	1855	529
25°	1728	1708	1716	1700	1699	794
35°	1492	1478	1482	1465	1464	932
45°	1213	1205	1204	1193	1193	934
55°	900	896	888	882	881	799
65°	532	522	509	506	508	531
75°	242	242	238	237	235	262
85°	56	61	61	61	61	66
90°	3	5	10	12	13	6
95°	55	204	684	281	183	59
105°	186	286	1146	1750	1647	197
115°	333	402	923	1827	2078	327
125°	456	519	837	1416	1662	406
135°	549	608	813	1147	1293	425
145°	637	681	803	976	1051	399
155°	718	742	797	876	904	331
165°	777	787	800	832	838	219
175°	806	807	802	813	811	77
180°	806	806	806	806	806	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1944.0	1944.0	1944.0	1944.0	1944.0
2.5°	1956.2	1940.2	1944.0	1941.1	1933.1
5°	1950.8	1932.5	1938.9	1932.0	1932.0
7.5°	1937.5	1917.5	1923.9	1917.0	1916.7
10°	1925.2	1905.2	1911.6	1904.8	1903.1
12.5°	1907.5	1887.5	1895.2	1887.1	1886.7
15°	1875.8	1857.5	1865.6	1858.7	1855.4
17.5°	1840.0	1820.1	1829.8	1820.3	1818.9
20°	1812.8	1792.8	1802.6	1788.9	1788.9
22.5°	1780.1	1760.1	1771.2	1753.5	1753.5
25°	1727.6	1707.6	1715.7	1700.3	1698.6
27.5°	1665.2	1645.6	1654.0	1636.6	1636.3
30°	1620.3	1601.9	1611.7	1593.0	1591.3
32.5°	1571.2	1554.2	1561.3	1542.5	1540.9
35°	1492.5	1477.5	1482.3	1465.2	1463.5
37.5°	1409.7	1394.4	1399.8	1385.1	1384.5
40°	1351.1	1341.1	1342.6	1330.6	1327.2
42.5°	1296.6	1285.2	1286.7	1274.7	1274.1
45°	1213.1	1204.7	1204.5	1192.6	1192.6
47.5°	1124.5	1118.1	1116.3	1106.4	1106.1
50°	1063.1	1058.1	1056.3	1047.8	1046.1
52.5°	999.1	996.7	990.9	983.7	983.4
55°	899.6	896.2	887.7	882.5	880.8
57.5°	791.6	784.9	775.2	767.7	769.1
60°	713.9	707.2	693.4	690.0	690.0
62.5°	638.9	630.9	617.1	612.4	615.1
65°	531.6	521.6	509.4	506.1	507.7
67.5°	434.1	425.1	412.0	411.9	410.6
70°	371.4	366.4	356.1	356.1	356.1
72.5°	315.5	313.2	305.7	305.6	304.3
75°	241.9	241.9	238.5	236.8	235.1
77.5°	181.3	181.9	180.3	178.5	175.5
80°	143.1	146.4	144.8	143.1	141.4
82.5°	107.7	111.0	110.7	107.7	107.3
85°	56.2	61.2	61.3	61.3	61.3
87.5°	15.5	21.3	23.9	24.2	25.7
90°	2.6	5.1	10.3	11.6	12.9
92.5°	23.2	96.3	172.2	62.8	49.0
95°	55.4	204.2	684.5	281.4	183.0
97.5°	91.8	228.7	1013.9	780.6	565.4
100°	118.6	243.4	1135.6	1143.7	929.4
102.5°	144.4	260.1	1159.3	1413.1	1209.9
105°	185.6	286.4	1145.9	1749.5	1647.4
107.5°	229.4	319.2	1082.0	1911.7	1949.0
110°	260.4	341.0	1032.5	1946.6	2067.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	288.2	365.9	986.1	1919.0	2097.5
115°	332.6	401.9	922.9	1827.1	2077.9
117.5°	371.2	440.3	881.4	1697.7	1983.0
120°	397.0	465.1	864.9	1610.1	1897.4
122.5°	421.8	486.8	851.5	1528.3	1800.5
125°	456.3	519.3	836.6	1415.8	1661.6
127.5°	485.7	548.7	827.8	1320.7	1532.6
130°	505.3	568.3	823.7	1262.5	1455.3
132.5°	523.9	583.9	819.6	1213.6	1388.3
135°	549.1	608.4	813.4	1146.7	1292.9
137.5°	577.5	631.4	810.3	1090.5	1215.3
140°	593.0	645.9	808.2	1053.0	1162.7
142.5°	610.5	659.4	806.2	1019.7	1116.3
145°	636.8	680.9	803.1	976.2	1050.6
147.5°	662.0	700.6	800.2	939.5	997.2
150°	680.6	712.1	799.2	917.6	964.2
152.5°	695.0	724.5	798.2	898.8	937.4
155°	718.0	741.9	796.6	875.9	903.6
157.5°	739.1	757.5	796.9	859.2	878.1
160°	751.5	767.9	797.9	849.8	863.6
162.5°	761.8	776.2	798.9	841.5	852.3
165°	777.3	787.4	800.5	831.6	837.9
167.5°	789.1	795.2	801.8	825.5	827.6
170°	795.3	800.4	801.8	822.4	822.4
172.5°	800.5	803.5	801.8	818.2	817.2
175°	805.6	806.9	801.8	813.3	810.8
177.5°	807.7	806.7	801.5	808.7	806.7
180°	805.6	805.6	805.6	805.6	805.6

(END OF REPORT)