

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: P564415

Luminaire Tested: **SQ4-PR1-125U-125D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564415
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PR1-125U-125D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

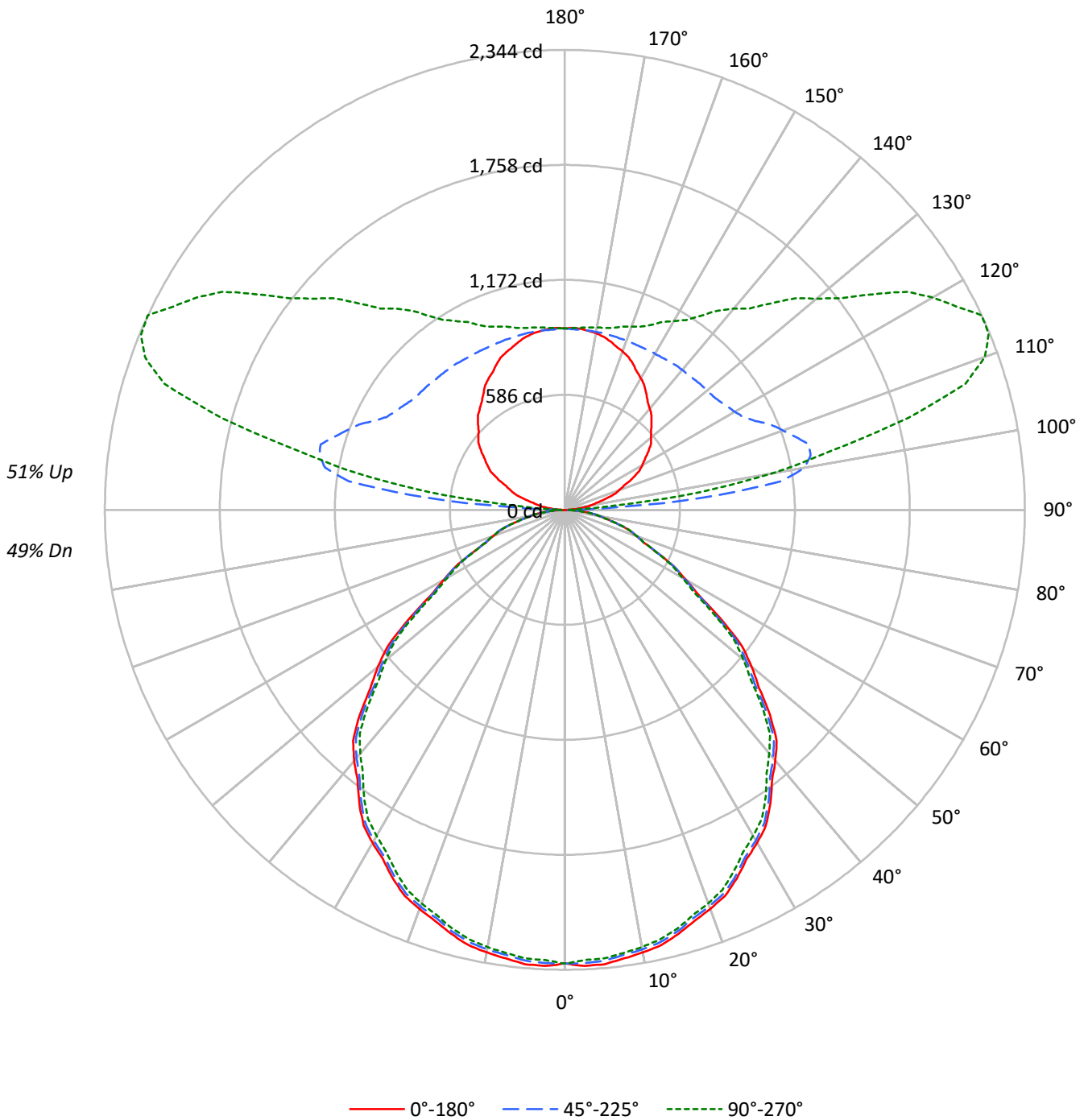
Lumens per Lamp: N/A
Luminaire Lumens: 11750.0 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 117.2
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



TEST NUMBER: P564415
CATALOG NUMBER: SQ4-PR1-125U-125D-930-1D-UNV-STD-W-6

Luminous Intensity Polar Plot





TEST NUMBER: P564415

CATALOG NUMBER: SQ4-PR1-125U-125D-930-1D-UNV-STD-W-6

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	99	99	99	99	83	83	83	69	69	69	55	55	55	49				
1	98	94	90	86	90	86	83	80	73	71	69	61	59	58	49	48	47	42				
2	89	82	76	71	82	76	71	66	64	61	57	54	51	49	44	42	40	36				
3	82	72	65	60	75	67	61	56	57	52	48	48	44	41	39	37	35	31				
4	75	64	56	51	69	60	53	47	51	46	41	43	39	36	35	32	30	26				
5	69	57	49	43	63	53	46	41	46	40	36	38	34	31	32	29	26	23				
6	63	51	43	38	58	48	41	36	41	36	31	35	30	27	29	26	23	20				
7	59	46	39	33	54	43	36	31	37	32	28	32	27	24	26	23	21	18				
8	54	42	35	29	50	39	33	28	34	29	25	29	25	22	24	21	19	16				
9	51	39	31	26	47	36	29	25	31	26	22	27	22	19	22	19	17	15				
10	47	35	28	23	44	33	27	22	29	23	20	25	20	18	21	18	15	13				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14222	14222	14222
5°	14351	14240	14166
10°	14305	14206	14131
15°	14242	14154	14077
20°	14170	14079	13975
25°	14071	13976	13814
30°	13919	13820	13622
35°	13714	13594	13399
40°	13401	13257	13017
45°	12855	12629	12369
50°	11892	11606	11377
55°	10379	10145	9931
60°	8746	8673	8502
65°	7565	7594	7536
70°	6949	6985	6985
75°	6673	6673	6721
80°	6280	6347	6280
85°	5060	5625	5625



TEST NUMBER: P564415

CATALOG NUMBER: SQ4-PR1-125U-125D-930-1D-UNV-STD-W-6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.7	1.9
10°-20°	625.6	5.3
20°-30°	943.6	8.0
30°-40°	1124.3	9.6
40°-50°	1108.5	9.4
50°-60°	847.2	7.2
60°-70°	524.3	4.5
70°-80°	297.8	2.5
80°-90°	92.8	0.8
90°-100°	432.4	3.7
100°-110°	1164.8	9.9
110°-120°	1222.5	10.4
120°-130°	992.0	8.4
130°-140°	778.0	6.6
140°-150°	597.3	5.1
150°-160°	429.5	3.7
160°-170°	262.4	2.2
170°-180°	88.5	0.8
0°-30°	1787.9	15.2
0°-40°	2912.3	24.8
0°-60°	4867.9	41.4
0°-90°	5782.7	49.2
90°-120°	2819.7	24.0
90°-150°	5187.0	44.1
90°-180°	5967.0	50.8
0°-180°	11750.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2312	2312	2312	2312	2312	
5°	2324	2299	2306	2298	2294	221
15°	2237	2213	2223	2215	2211	631
25°	2073	2048	2059	2037	2036	954
35°	1826	1805	1810	1786	1784	1140
45°	1478	1458	1452	1426	1422	1132
55°	968	952	946	930	926	867
65°	520	516	522	518	518	527
75°	281	281	281	283	283	297
85°	72	76	80	80	80	83
90°	2	7	14	15	15	7
95°	66	235	709	362	251	69
105°	216	335	1288	1927	1809	227
115°	380	466	1073	2073	2344	374
125°	519	596	963	1628	1916	464
135°	625	698	936	1313	1487	483
145°	723	779	924	1123	1206	453
155°	821	851	916	1008	1040	378
165°	890	901	920	956	961	251
175°	926	924	921	934	931	88
180°	924	924	924	924	924	

TEST NUMBER: P564415

CATALOG NUMBER: SQ4-PR1-125U-125D-930-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2312.3	2312.3	2312.3	2312.3	2312.3
2.5°	2326.7	2306.4	2312.3	2307.3	2296.4
5°	2324.3	2299.0	2306.3	2298.3	2294.4
7.5°	2306.3	2281.4	2288.8	2280.8	2278.5
10°	2290.4	2267.0	2274.5	2266.4	2262.5
12.5°	2272.9	2248.0	2257.0	2247.3	2243.4
15°	2236.6	2213.3	2222.7	2214.6	2210.7
17.5°	2196.8	2171.9	2181.3	2172.0	2166.9
20°	2164.9	2141.6	2151.0	2137.0	2135.1
22.5°	2129.9	2106.5	2115.9	2097.2	2096.8
25°	2073.3	2048.0	2059.4	2037.4	2035.5
27.5°	2006.0	1982.6	1992.1	1969.7	1967.4
30°	1959.8	1936.4	1945.9	1921.9	1918.0
32.5°	1907.2	1885.4	1893.3	1869.3	1867.0
35°	1826.4	1804.9	1810.4	1786.5	1784.5
37.5°	1734.3	1714.9	1718.0	1691.7	1689.7
40°	1669.0	1649.5	1651.1	1623.2	1621.2
42.5°	1597.3	1577.8	1576.2	1548.3	1546.3
45°	1477.8	1458.3	1451.9	1425.9	1422.0
47.5°	1341.6	1322.1	1310.1	1288.9	1286.2
50°	1242.8	1223.3	1212.9	1194.9	1189.0
52.5°	1136.0	1116.6	1107.8	1091.3	1085.5
55°	967.9	952.4	946.0	930.0	926.1
57.5°	808.2	797.7	795.9	780.3	778.7
60°	711.0	705.2	705.0	691.1	691.1
62.5°	628.2	623.9	627.0	617.8	616.2
65°	519.8	515.9	521.8	517.8	517.8
67.5°	434.2	434.2	437.8	436.2	436.2
70°	386.4	386.4	388.4	388.4	388.4
72.5°	343.4	341.8	346.9	346.9	345.4
75°	280.8	280.8	280.8	282.8	282.8
77.5°	218.7	219.1	220.7	220.2	218.7
80°	177.3	179.2	179.2	177.3	177.3
82.5°	135.8	137.8	137.8	137.4	135.8
85°	71.7	75.6	79.7	79.7	79.7
87.5°	21.2	28.3	34.7	34.9	33.3
90°	2.4	7.0	14.1	15.3	15.3
92.5°	28.7	101.5	200.7	96.6	67.1
95°	65.9	235.2	708.9	362.5	250.8
97.5°	105.3	269.2	1111.8	928.8	700.4
100°	135.4	282.8	1240.0	1297.3	1076.3
102.5°	164.6	301.9	1282.3	1573.3	1391.9
105°	215.5	335.2	1288.2	1927.3	1808.7
107.5°	263.5	370.4	1233.4	2109.2	2139.8
110°	295.6	396.9	1183.4	2165.7	2277.4



TEST NUMBER: P564415

CATALOG NUMBER: SQ4-PR1-125U-125D-930-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	329.5	423.4	1135.4	2153.2	2336.7
115°	380.3	465.5	1072.7	2072.8	2344.5
117.5°	426.7	506.6	1024.2	1944.4	2247.0
120°	456.9	534.0	999.7	1852.3	2163.1
122.5°	483.3	559.5	981.8	1758.0	2068.0
125°	519.3	596.4	963.2	1628.0	1915.9
127.5°	553.9	629.9	951.5	1513.3	1770.3
130°	574.6	650.6	946.7	1447.6	1673.3
132.5°	595.4	670.4	942.0	1389.7	1597.0
135°	625.3	697.8	936.1	1313.4	1487.2
137.5°	653.8	723.3	933.1	1248.6	1391.4
140°	673.6	740.3	930.3	1208.7	1337.7
142.5°	694.3	756.5	928.4	1171.5	1280.2
145°	723.0	779.4	924.4	1122.9	1205.8
147.5°	754.1	803.1	920.4	1082.0	1147.2
150°	774.8	817.4	918.5	1056.3	1110.4
152.5°	793.7	830.7	917.5	1035.4	1079.3
155°	820.7	850.7	916.1	1007.5	1039.8
157.5°	844.5	867.8	916.4	988.0	1009.6
160°	859.6	879.2	917.3	976.5	992.7
162.5°	872.8	888.7	918.2	967.0	978.5
165°	890.2	900.6	919.7	956.3	960.9
167.5°	904.4	910.3	920.8	948.0	949.8
170°	913.8	916.1	920.8	943.2	943.2
172.5°	919.4	919.9	921.8	938.5	938.5
175°	925.5	924.4	920.8	933.7	931.4
177.5°	928.1	926.3	921.5	929.0	927.2
180°	924.4	924.4	924.4	924.4	924.4

(END OF REPORT)