

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: P520286

Luminaire Tested: **SQ4-F-125U-050D-935-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520286
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G3-1910-536-17)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-125U-050D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

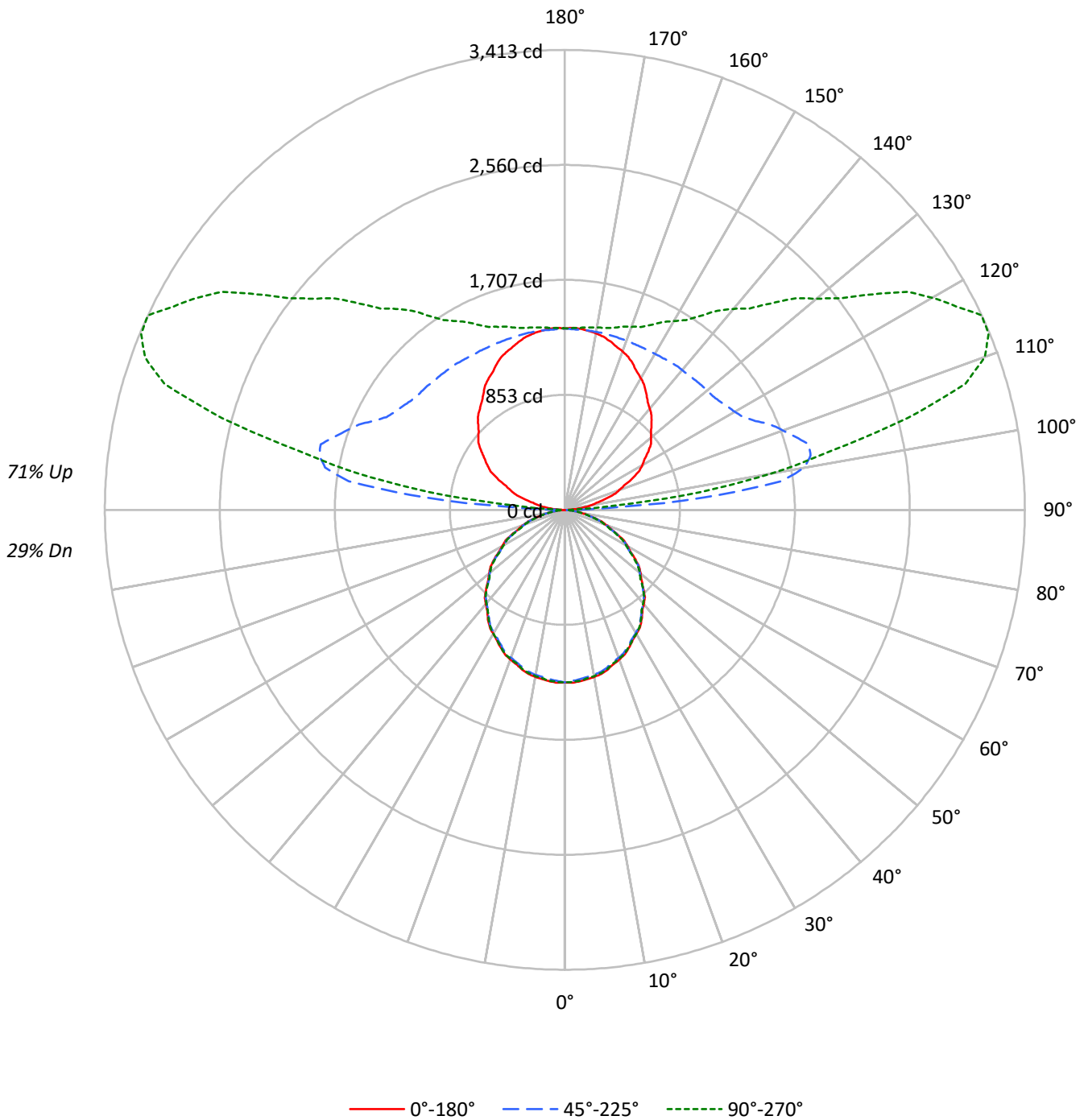
Lumens per Lamp: N/A
Luminaire Lumens: 12184.4 lumens
Efficiency: N/A
Efficacy: 136.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 89.1
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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	37	37	37	29
1	93	89	85	82	83	80	77	74	63	60	58	47	45	44	32	31	31	24
2	85	77	72	67	76	70	65	60	55	51	48	41	39	37	28	27	26	20
3	77	68	61	55	69	61	55	50	48	44	40	36	33	31	25	23	22	17
4	70	60	52	47	63	54	47	42	43	38	34	32	29	26	22	20	19	15
5	64	53	45	40	57	48	41	36	38	33	29	29	25	23	20	18	16	13
6	59	48	40	34	53	43	36	31	34	29	25	26	22	20	18	16	14	11
7	55	43	35	30	49	39	32	27	31	26	22	23	20	17	16	14	13	10
8	51	39	31	26	45	35	28	24	28	23	20	21	18	15	15	13	11	9
9	47	35	28	23	42	32	26	21	26	21	17	20	16	14	14	12	10	8
10	44	32	25	21	39	29	23	19	23	19	16	18	15	12	13	11	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5905	5905	5905
5°	5919	5848	5896
10°	5900	5827	5868
15°	5860	5786	5835
20°	5805	5737	5780
25°	5739	5669	5722
30°	5659	5613	5650
35°	5597	5529	5558
40°	5490	5438	5448
45°	5377	5332	5332
50°	5263	5214	5189
55°	5141	5072	5044
60°	4948	4869	4838
65°	4713	4619	4564
70°	4392	4299	4207
75°	3941	3818	3725
80°	3185	3140	3050
85°	1905	2175	2265



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.8	1.0
10°-20°	343.9	2.8
20°-30°	516.6	4.2
30°-40°	616.6	5.1
40°-50°	631.9	5.2
50°-60°	563.5	4.6
60°-70°	419.7	3.4
70°-80°	227.8	1.9
80°-90°	55.9	0.5
90°-100°	629.6	5.2
100°-110°	1695.9	13.9
110°-120°	1779.8	14.6
120°-130°	1444.2	11.9
130°-140°	1132.7	9.3
140°-150°	869.6	7.1
150°-160°	625.2	5.1
160°-170°	382.0	3.1
170°-180°	128.8	1.1
0°-30°	981.3	8.1
0°-40°	1597.9	13.1
0°-60°	2793.3	22.9
0°-90°	3496.7	28.7
90°-120°	4105.2	33.7
90°-150°	7551.7	62.0
90°-180°	8688.0	71.3
0°-180°	12184.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1280	1280	1280	1280	1280	
5°	1278	1277	1263	1275	1273	121
15°	1227	1224	1212	1222	1222	346
25°	1128	1124	1114	1121	1124	519
35°	994	990	982	982	987	620
45°	824	826	817	816	817	636
55°	639	639	631	626	627	569
65°	432	430	423	418	418	428
75°	221	219	214	211	209	234
85°	36	39	41	43	43	50
90°	4	10	20	22	22	8
95°	96	342	1032	528	365	100
105°	314	488	1876	2806	2633	330
115°	554	678	1562	3018	3413	545
125°	756	868	1402	2370	2789	675
135°	910	1016	1363	1912	2165	703
145°	1053	1135	1346	1635	1756	660
155°	1195	1238	1334	1467	1514	550
165°	1296	1311	1339	1392	1399	365
175°	1348	1346	1341	1359	1356	128
180°	1346	1346	1346	1346	1346	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1280.0	1280.0	1280.0	1280.0	1280.0
2.5°	1284.1	1281.5	1270.4	1280.0	1278.6
5°	1278.3	1276.6	1262.8	1274.9	1273.2
7.5°	1269.1	1265.7	1252.3	1263.9	1262.3
10°	1259.5	1256.1	1244.0	1254.3	1252.6
12.5°	1247.2	1245.1	1231.7	1241.9	1241.6
15°	1227.0	1223.6	1211.5	1221.7	1221.7
17.5°	1200.1	1198.2	1186.4	1196.4	1195.0
20°	1182.4	1179.0	1168.7	1177.3	1177.3
22.5°	1160.4	1158.4	1148.1	1155.3	1156.6
25°	1127.6	1124.2	1113.8	1120.8	1124.1
27.5°	1091.2	1088.5	1079.9	1084.4	1086.7
30°	1062.4	1062.4	1053.8	1055.7	1060.7
32.5°	1036.3	1036.3	1026.4	1028.2	1030.5
35°	993.8	990.5	981.8	982.0	987.0
37.5°	944.5	942.9	937.3	936.4	937.6
40°	911.6	909.9	903.0	904.7	904.7
42.5°	878.7	877.0	870.1	867.8	870.5
45°	824.2	825.9	817.3	815.7	817.3
47.5°	770.4	770.4	763.6	758.9	761.5
50°	733.4	733.4	726.5	723.1	723.1
52.5°	695.0	696.4	688.2	683.4	684.7
55°	639.2	639.2	630.6	625.5	627.1
57.5°	577.4	577.4	568.9	563.8	566.9
60°	536.3	536.3	527.7	522.7	524.4
62.5°	495.2	495.2	486.6	481.5	481.9
65°	431.8	430.1	423.2	418.1	418.1
67.5°	370.9	366.4	361.2	354.4	354.4
70°	325.6	323.9	318.7	311.9	311.9
72.5°	284.5	281.4	276.2	270.8	270.8
75°	221.1	219.4	214.2	210.7	209.0
77.5°	158.4	157.0	156.6	151.9	153.2
80°	119.9	119.9	118.2	114.8	114.8
82.5°	85.7	87.0	84.0	83.2	81.9
85°	36.0	39.3	41.1	42.8	42.8
87.5°	7.5	12.9	13.7	15.4	15.4
90°	3.5	10.2	20.5	22.3	22.3
92.5°	41.8	147.8	292.2	140.6	97.7
95°	96.0	342.4	1032.0	527.8	365.2
97.5°	153.2	391.9	1618.7	1352.3	1019.7
100°	197.1	411.8	1805.2	1888.8	1566.9
102.5°	239.7	439.5	1867.0	2290.6	2026.4
105°	313.8	488.0	1875.6	2805.9	2633.2
107.5°	383.6	539.2	1795.6	3070.8	3115.4
110°	430.3	577.8	1722.9	3153.0	3315.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	479.6	616.5	1652.9	3134.8	3402.0
115°	553.7	677.8	1561.8	3017.7	3413.2
117.5°	621.2	737.6	1491.1	2830.8	3271.4
120°	665.1	777.4	1455.5	2696.7	3149.3
122.5°	703.5	814.5	1429.5	2559.5	3010.8
125°	756.0	868.3	1402.3	2370.2	2789.2
127.5°	806.4	917.1	1385.3	2203.2	2577.4
130°	836.6	947.2	1378.3	2107.5	2436.1
132.5°	866.7	976.1	1371.5	2023.3	2325.0
135°	910.3	1015.9	1363.0	1912.2	2165.3
137.5°	951.8	1053.0	1358.4	1817.8	2025.7
140°	980.6	1077.8	1354.4	1759.8	1947.5
142.5°	1010.8	1101.3	1351.6	1705.6	1863.8
145°	1052.6	1134.7	1345.8	1634.8	1755.5
147.5°	1097.9	1169.3	1340.0	1575.3	1670.1
150°	1128.0	1190.1	1337.2	1537.9	1616.6
152.5°	1155.4	1209.4	1335.8	1507.3	1571.3
155°	1194.9	1238.5	1333.7	1466.9	1513.8
157.5°	1229.5	1263.4	1334.1	1438.3	1469.9
160°	1251.5	1280.0	1335.5	1421.8	1445.2
162.5°	1270.7	1293.8	1336.9	1407.8	1424.6
165°	1296.1	1311.1	1338.9	1392.3	1399.0
167.5°	1316.7	1325.4	1340.7	1380.1	1382.8
170°	1330.4	1333.7	1340.7	1373.2	1373.2
172.5°	1338.6	1339.3	1342.0	1366.3	1366.3
175°	1347.5	1345.8	1340.7	1359.4	1356.0
177.5°	1351.3	1348.5	1341.6	1352.6	1349.9
180°	1345.8	1345.8	1345.8	1345.8	1345.8

(END OF REPORT)