

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: P520018

Luminaire Tested: **SQ4-F-075U-075D-930-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P520018  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G3-1910-536-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/29/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-F-075U-075D-930-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

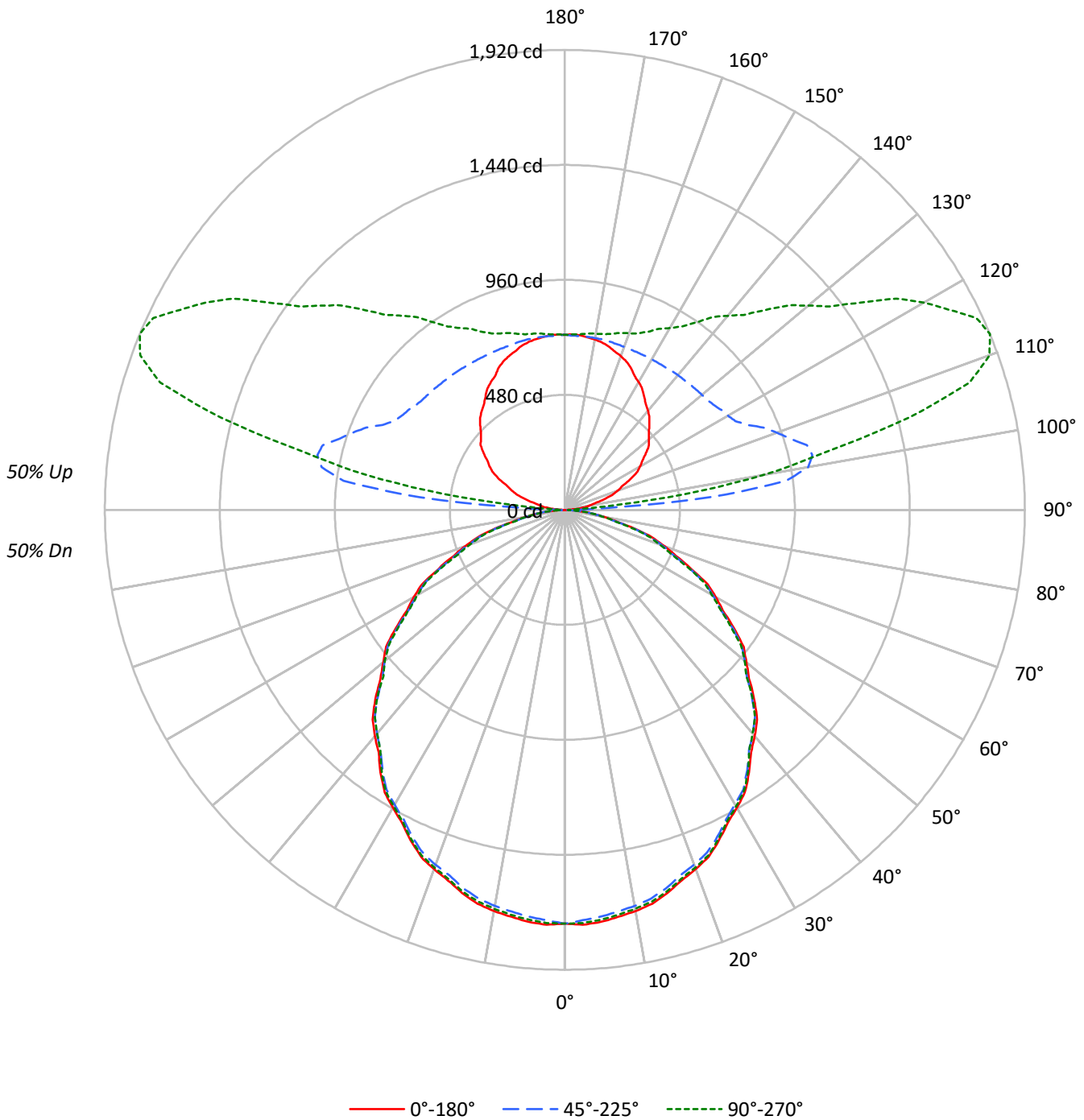
Lumens per Lamp: N/A  
Luminaire Lumens: 9482.3 lumens  
Efficiency: N/A  
Efficacy: 105.1 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 90.2  
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	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	93	89	86	90	86	83	80	73	71	68	61	59	57	49	48	47	42
2	89	81	75	70	82	75	70	65	64	60	56	53	50	48	43	41	40	35
3	81	72	64	58	74	66	60	55	56	51	47	47	43	40	38	36	34	29
4	74	63	55	49	68	59	52	46	50	44	40	42	38	34	34	31	29	25
5	68	56	48	42	62	52	45	40	45	39	35	37	33	30	31	28	25	22
6	63	50	42	36	57	47	40	34	40	34	30	34	29	26	28	25	22	19
7	58	45	37	32	53	42	35	30	36	31	26	31	26	23	25	22	20	17
8	54	41	33	28	49	38	31	27	33	27	23	28	24	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	21	18	16	14
10	47	34	27	22	43	32	26	21	28	23	19	24	20	17	20	17	14	12

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	7969	7969	7969
5°	7999	7898	7956
10°	7967	7864	7923
15°	7906	7808	7876
20°	7835	7743	7804
25°	7748	7669	7725
30°	7650	7567	7609
35°	7550	7470	7506
40°	7422	7347	7338
45°	7295	7203	7224
50°	7092	7036	7036
55°	6927	6840	6777
60°	6705	6588	6531
65°	6343	6223	6138
70°	5956	5809	5661
75°	5360	5164	5053
80°	4285	4200	4163
85°	2567	2901	2985



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.1	1.7
10°-20°	464.2	4.9
20°-30°	697.4	7.4
30°-40°	832.2	8.8
40°-50°	853.4	9.0
50°-60°	760.5	8.0
60°-70°	567.0	6.0
70°-80°	307.5	3.2
80°-90°	72.5	0.8
90°-100°	345.0	3.6
100°-110°	949.0	10.0
110°-120°	979.6	10.3
120°-130°	784.9	8.3
130°-140°	616.4	6.5
140°-150°	472.4	5.0
150°-160°	339.7	3.6
160°-170°	207.7	2.2
170°-180°	70.0	0.7
0°-30°	1324.7	14.0
0°-40°	2156.8	22.7
0°-60°	3770.7	39.8
0°-90°	4717.7	49.8
90°-120°	2273.6	24.0
90°-150°	4147.3	43.7
90°-180°	4765.0	50.3
0°-180°	9482.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1727	1727	1727	1727	1727	
5°	1727	1724	1706	1720	1718	164
15°	1655	1652	1635	1648	1649	467
25°	1522	1521	1507	1515	1518	701
35°	1341	1338	1326	1327	1333	837
45°	1118	1114	1104	1104	1107	861
55°	861	860	850	843	843	769
65°	581	581	570	564	562	578
75°	301	294	290	285	284	316
85°	48	52	55	55	56	67
90°	2	6	11	14	14	5
95°	51	188	610	261	166	54
105°	170	261	1046	1593	1486	179
115°	300	366	839	1670	1895	296
125°	414	472	761	1287	1508	369
135°	500	554	739	1041	1178	385
145°	577	617	728	887	955	362
155°	654	675	724	797	820	300
165°	706	716	727	756	761	199
175°	731	733	728	738	736	69
180°	731	731	731	731	731	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1727.4	1727.4	1727.4	1727.4	1727.4
2.5°	1733.7	1730.1	1714.9	1727.4	1726.2
5°	1727.4	1724.4	1705.6	1719.5	1718.1
7.5°	1713.3	1710.0	1691.4	1705.5	1705.2
10°	1700.9	1696.2	1678.9	1693.0	1691.4
12.5°	1684.5	1680.0	1662.6	1676.6	1675.2
15°	1655.4	1652.3	1635.0	1647.6	1649.2
17.5°	1622.2	1616.4	1600.9	1613.2	1614.6
20°	1596.0	1591.3	1577.2	1588.1	1589.7
22.5°	1568.3	1563.8	1549.5	1560.5	1562.1
25°	1522.2	1520.8	1506.6	1514.6	1517.6
27.5°	1472.5	1468.2	1456.8	1462.8	1466.0
30°	1436.1	1433.1	1420.5	1425.2	1428.4
32.5°	1398.5	1396.8	1385.5	1387.7	1392.0
35°	1340.6	1337.5	1326.5	1326.7	1332.8
37.5°	1276.4	1273.1	1263.8	1262.4	1264.8
40°	1232.5	1228.0	1220.0	1218.5	1218.5
42.5°	1187.5	1184.1	1173.7	1170.9	1174.6
45°	1118.2	1113.7	1104.1	1104.2	1107.3
47.5°	1043.4	1041.5	1030.5	1025.6	1026.8
50°	988.2	991.3	980.4	974.3	980.4
52.5°	940.7	938.8	929.1	922.9	925.3
55°	861.3	859.9	850.4	842.6	842.6
57.5°	781.8	777.8	768.1	762.2	766.8
60°	726.7	725.2	714.1	703.3	707.9
62.5°	671.5	668.8	657.7	650.7	654.0
65°	581.1	581.1	570.1	563.8	562.3
67.5°	501.8	494.5	488.3	480.7	478.6
70°	441.6	435.5	430.7	424.3	419.7
72.5°	382.8	379.1	371.8	365.5	364.6
75°	300.7	294.5	289.7	285.0	283.5
77.5°	213.9	212.8	208.3	205.8	206.8
80°	161.3	161.3	158.1	158.1	156.7
82.5°	113.7	114.9	114.3	111.8	111.5
85°	48.5	51.6	54.8	54.8	56.4
87.5°	9.1	16.1	15.9	16.6	16.6
90°	1.6	6.2	10.9	14.0	14.0
92.5°	21.5	91.7	159.0	61.0	50.1
95°	51.4	188.3	610.0	260.9	166.5
97.5°	83.7	208.8	930.9	717.3	506.1
100°	107.4	221.4	1031.7	1041.4	849.7
102.5°	129.8	236.6	1057.8	1291.9	1116.0
105°	169.6	260.9	1045.7	1592.6	1486.1
107.5°	207.6	291.0	986.2	1739.9	1771.5
110°	234.9	311.0	941.4	1776.5	1886.0

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	259.9	333.5	896.6	1752.9	1919.7
115°	300.4	365.7	838.7	1670.1	1895.4
117.5°	338.9	399.2	802.1	1554.1	1808.8
120°	362.6	420.4	785.8	1467.2	1730.4
122.5°	383.7	441.5	774.7	1391.0	1640.8
125°	413.9	471.7	761.0	1287.3	1507.9
127.5°	442.6	497.7	751.9	1200.7	1394.3
130°	457.5	513.8	746.9	1149.3	1325.8
132.5°	475.0	531.2	743.2	1104.1	1263.5
135°	499.5	554.3	739.2	1041.0	1177.9
137.5°	522.5	573.4	735.7	990.1	1103.0
140°	540.0	587.2	734.5	956.2	1058.1
142.5°	554.9	598.4	732.0	926.0	1013.3
145°	577.3	616.9	728.3	887.0	955.4
147.5°	601.2	635.4	726.4	852.4	907.2
150°	616.2	646.6	725.2	833.5	876.1
152.5°	629.9	657.9	723.9	817.1	852.4
155°	653.6	674.9	723.6	797.3	820.1
157.5°	670.7	688.0	723.6	780.9	796.8
160°	683.1	696.8	723.6	772.1	784.3
162.5°	693.1	704.3	724.9	764.6	774.3
165°	706.5	715.6	726.7	756.4	761.0
167.5°	715.8	722.8	728.3	749.4	750.7
170°	722.0	726.6	728.3	746.9	746.9
172.5°	727.0	729.2	728.3	743.2	742.0
175°	731.3	732.9	728.3	737.6	736.0
177.5°	732.6	732.6	727.6	735.1	732.6
180°	731.3	731.3	731.3	731.3	731.3

(END OF REPORT)