

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: P519826

Luminaire Tested: **SQ4-F-025U-075D-930-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519826
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-025U-075D-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

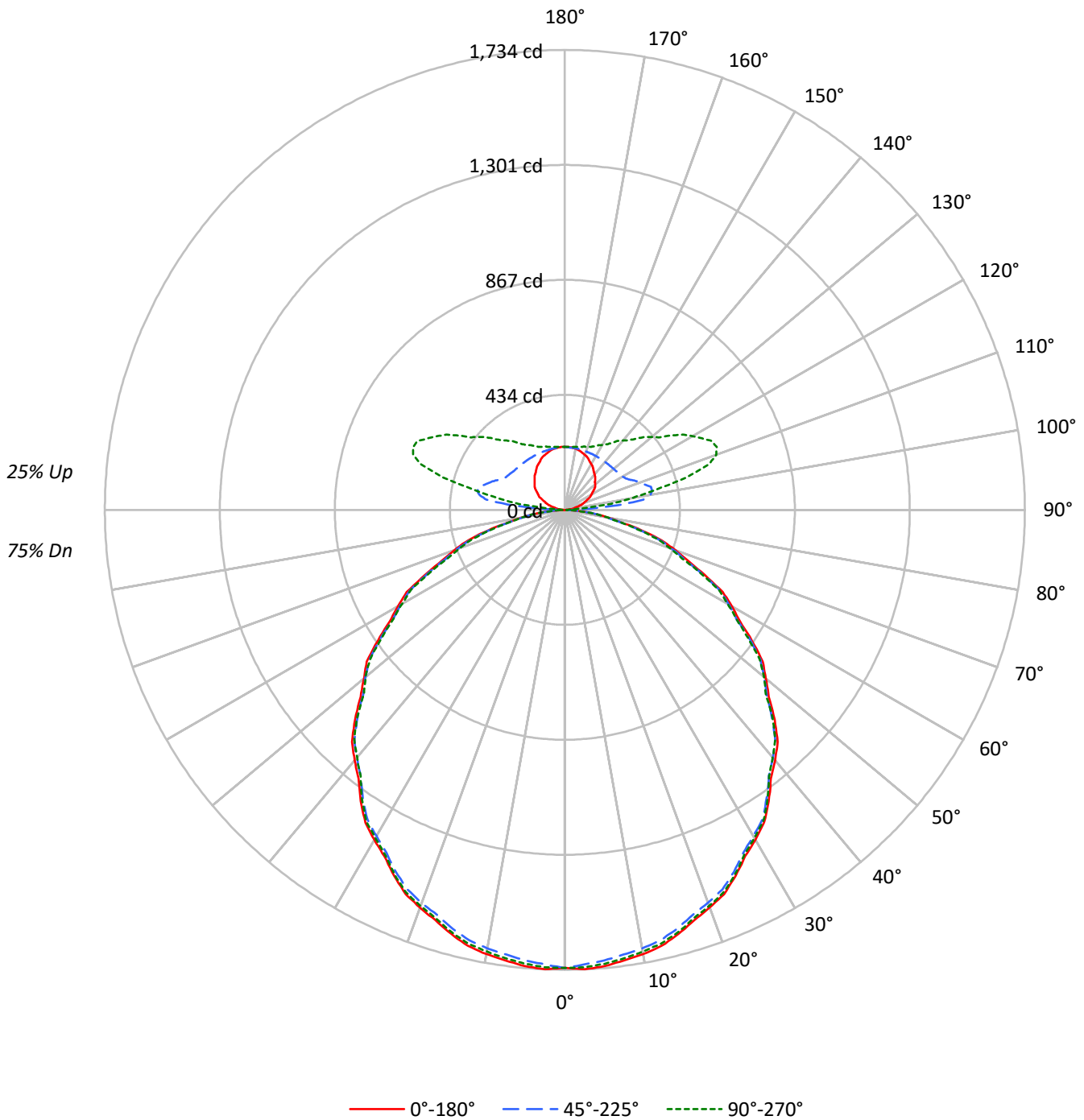
Lumens per Lamp: N/A
Luminaire Lumens: 6254.4 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 63.2
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: P519826
CATALOG NUMBER: SQ4-F-025U-075D-930-1D-UNV-STD-W-8

Luminous Intensity Polar Plot





TEST NUMBER: P519826

CATALOG NUMBER: SQ4-F-025U-075D-930-1D-UNV-STD-W-8

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	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79	75
1	103	99	95	91	98	94	91	87	86	83	80	78	75	73	70	69	67	63
2	94	86	80	74	89	82	77	72	75	70	66	68	64	61	62	59	56	53
3	86	76	68	62	81	72	65	60	66	60	56	60	56	52	55	51	48	45
4	79	67	59	52	74	64	57	51	59	52	47	53	48	44	49	45	41	38
5	72	60	51	45	68	57	49	44	52	46	41	48	43	38	44	39	36	33
6	67	54	45	39	63	52	44	38	47	41	36	43	38	34	40	35	31	29
7	62	49	40	34	58	47	39	33	43	36	32	39	34	30	36	32	28	26
8	57	44	36	31	54	43	35	30	39	33	28	36	31	27	33	29	25	23
9	53	41	33	27	51	39	32	27	36	30	25	33	28	24	31	26	23	21
10	50	37	30	25	48	36	29	24	33	27	23	31	25	22	28	24	20	19

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



TEST NUMBER: P519826

CATALOG NUMBER: SQ4-F-025U-075D-930-1D-UNV-STD-W-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.1	2.6
10°-20°	464.2	7.4
20°-30°	697.4	11.2
30°-40°	832.2	13.3
40°-50°	853.4	13.6
50°-60°	760.5	12.2
60°-70°	567.0	9.1
70°-80°	307.5	4.9
80°-90°	71.9	1.1
90°-100°	115.6	1.8
100°-110°	303.9	4.9
110°-120°	315.1	5.0
120°-130°	252.8	4.0
130°-140°	198.3	3.2
140°-150°	152.2	2.4
150°-160°	109.6	1.8
160°-170°	67.1	1.1
170°-180°	22.7	0.4
0°-30°	1324.7	21.2
0°-40°	2156.8	34.5
0°-60°	3770.7	60.3
0°-90°	4717.1	75.4
90°-120°	734.6	11.7
90°-150°	1337.9	21.4
90°-180°	1537.0	24.6
0°-180°	6254.4	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	4	12	6	6	3
95°	15	60	199	103	70	17
105°	55	83	336	510	476	58
115°	97	118	269	537	613	96
125°	135	152	245	414	488	120
135°	161	178	237	334	378	125
145°	187	199	234	285	307	117
155°	211	217	234	257	265	97
165°	228	231	234	243	246	64
175°	237	237	236	239	239	23
180°	237	237	237	237	237	

TEST NUMBER: P519826

CATALOG NUMBER: SQ4-F-025U-075D-930-1D-UNV-STD-W-8

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	15.8	16.3	15.1	15.1
90°	1.5	4.5	12.1	6.1	6.1
92.5°	6.4	30.8	68.2	30.2	19.5
95°	15.2	59.8	199.2	102.7	70.0
97.5°	26.5	65.7	297.9	237.0	174.5
100°	35.0	70.6	328.4	332.8	258.5
102.5°	42.2	75.6	336.9	414.6	350.9
105°	54.8	83.0	336.0	510.0	475.8
107.5°	67.5	93.7	316.9	559.7	568.0
110°	76.0	99.8	301.0	572.5	608.1

TEST NUMBER: P519826

CATALOG NUMBER: SQ4-F-025U-075D-930-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	84.5	107.2	286.5	564.3	619.1
115°	97.3	118.1	269.1	536.9	612.7
117.5°	109.7	128.8	257.2	498.8	582.9
120°	117.1	134.9	252.3	473.2	555.0
122.5°	124.4	142.2	248.7	447.6	528.2
125°	135.3	151.7	244.8	413.7	488.1
127.5°	144.1	160.8	241.5	386.4	449.2
130°	149.0	166.8	240.2	369.2	427.2
132.5°	153.9	171.7	239.0	354.5	406.5
135°	161.2	177.5	237.1	334.0	378.5
137.5°	168.8	184.8	236.9	318.6	355.2
140°	174.8	189.7	235.6	306.4	340.6
142.5°	179.7	193.4	235.6	297.8	327.2
145°	187.0	198.9	234.1	284.8	307.1
147.5°	194.3	205.9	234.1	274.0	292.5
150°	199.2	209.5	234.1	267.9	282.7
152.5°	204.1	212.1	234.1	263.0	274.2
155°	211.3	217.3	234.1	257.1	264.6
157.5°	216.8	222.4	234.1	251.9	257.2
160°	220.4	224.9	234.1	249.4	252.3
162.5°	224.1	227.4	234.1	247.0	250.0
165°	228.1	231.0	234.1	243.4	246.3
167.5°	231.7	233.2	235.6	241.7	243.0
170°	234.1	235.6	235.6	241.7	241.7
172.5°	235.3	235.6	235.6	240.5	239.3
175°	237.1	237.1	235.6	238.7	238.7
177.5°	237.1	237.1	236.0	238.4	237.1
180°	237.1	237.1	237.1	237.1	237.1

(END OF REPORT)