

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P521495

Luminaire Tested: **SQ4-F-075U-125D-93050-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521495
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-50,
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-075U-125D-93050-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

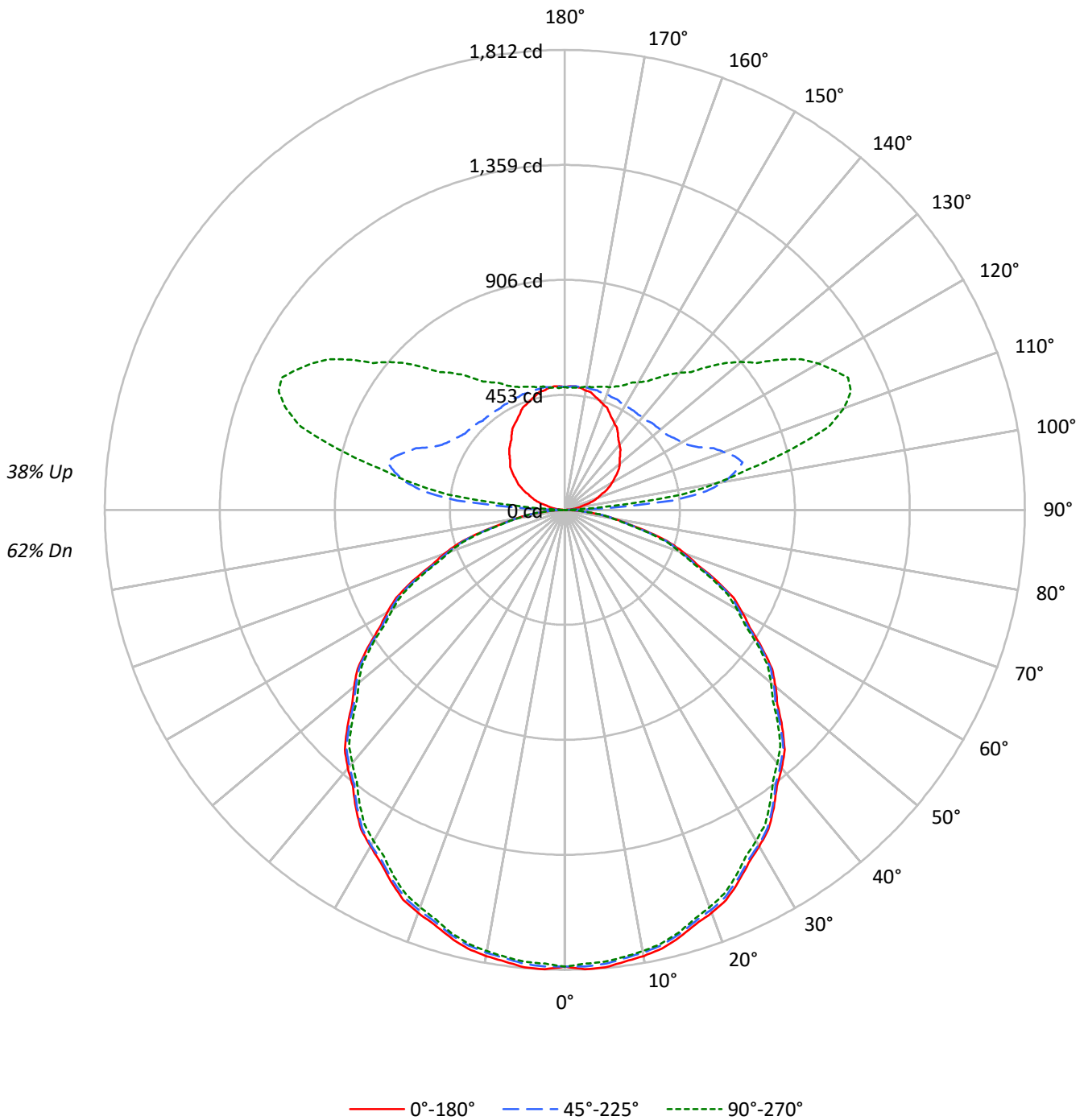
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8260.3 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.38
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 79
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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62
1	100	96	92	88	94	90	86	83	79	76	74	69	67	65	59	58	56	52
2	91	83	77	72	85	78	73	68	69	64	61	60	57	54	52	49	47	43
3	83	73	66	60	77	69	62	57	61	55	51	53	49	45	46	43	40	36
4	76	65	56	50	71	61	54	48	54	48	43	47	42	39	41	37	34	31
5	70	58	49	43	65	54	47	41	48	42	37	42	37	33	37	33	30	27
6	64	52	43	37	60	49	41	36	43	37	32	38	33	29	33	29	26	23
7	59	47	38	33	55	44	37	31	39	33	28	35	30	26	30	26	23	21
8	55	42	34	29	51	40	33	28	36	30	25	32	27	23	28	24	21	18
9	51	39	31	26	48	37	30	25	33	27	23	29	24	21	26	22	19	17
10	48	36	28	23	45	34	27	22	30	24	20	27	22	19	24	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16602	16602	16602
5°	16760	16636	16560
10°	16724	16598	16541
15°	16659	16551	16482
20°	16591	16480	16359
25°	16471	16378	16221
30°	16309	16255	16047
35°	16158	16077	15881
40°	16008	15896	15686
45°	15804	15670	15469
50°	15546	15428	15209
55°	15247	15098	14902
60°	14882	14673	14428
65°	14384	14094	13826
70°	13544	13213	12964
75°	12348	11981	11724
80°	10180	10127	9909
85°	7272	8246	8246



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.3	2.1
10°-20°	487.9	5.9
20°-30°	737.8	8.9
30°-40°	888.3	10.8
40°-50°	922.4	11.2
50°-60°	836.0	10.1
60°-70°	636.7	7.7
70°-80°	355.8	4.3
80°-90°	92.5	1.1
90°-100°	249.4	3.0
100°-110°	602.8	7.3
110°-120°	642.9	7.8
120°-130°	520.7	6.3
130°-140°	403.1	4.9
140°-150°	307.5	3.7
150°-160°	222.6	2.7
160°-170°	137.1	1.7
170°-180°	46.4	0.6
0°-30°	1396.0	16.9
0°-40°	2284.3	27.7
0°-60°	4042.7	48.9
0°-90°	5127.6	62.1
90°-120°	1495.1	18.1
90°-150°	2726.5	33.0
90°-180°	3133.0	37.9
0°-180°	8260.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1799	1799	1799	1799	1799	
5°	1810	1791	1796	1789	1788	172
15°	1744	1726	1733	1729	1726	492
25°	1618	1600	1609	1594	1593	745
35°	1435	1422	1427	1411	1410	897
45°	1211	1201	1201	1186	1186	933
55°	948	944	939	926	926	847
65°	659	652	646	634	633	650
75°	346	338	336	331	329	365
85°	69	75	78	79	78	85
90°	0	0	0	0	0	4
95°	25	125	427	278	195	28
105°	96	166	724	937	925	102
115°	176	225	582	1103	1231	174
125°	251	289	505	878	1031	224
135°	308	344	485	692	796	238
145°	365	392	476	588	634	228
155°	418	436	482	521	540	193
165°	462	469	488	495	502	130
175°	489	487	489	485	484	46
180°	484	484	484	484	484	



TEST NUMBER: P521495

CATALOG NUMBER: SQ4-F-075U-125D-93050-1D-UNV-STD-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1799.4	1799.4	1799.4	1799.4	1799.4
2.5°	1811.7	1795.7	1800.2	1796.8	1789.6
5°	1809.7	1790.6	1796.3	1789.1	1788.1
7.5°	1795.7	1776.7	1782.4	1778.1	1777.1
10°	1785.1	1766.0	1771.7	1766.6	1765.6
12.5°	1770.3	1752.1	1757.8	1751.8	1750.8
15°	1744.1	1726.0	1732.8	1728.6	1725.6
17.5°	1711.9	1693.5	1701.5	1695.2	1691.6
20°	1689.8	1669.7	1678.5	1668.2	1666.2
22.5°	1662.7	1642.7	1651.4	1638.7	1638.3
25°	1618.0	1600.0	1608.8	1594.4	1593.4
27.5°	1567.8	1551.0	1560.2	1542.8	1541.6
30°	1530.9	1514.9	1525.8	1508.3	1506.3
32.5°	1493.2	1479.6	1486.5	1471.4	1468.6
35°	1434.6	1421.6	1427.4	1411.0	1410.0
37.5°	1371.7	1358.7	1364.1	1348.5	1346.7
40°	1329.1	1316.0	1319.8	1303.4	1302.4
42.5°	1282.3	1271.7	1273.9	1256.7	1257.3
45°	1211.2	1201.2	1201.0	1185.6	1185.6
47.5°	1135.6	1125.6	1125.8	1111.6	1110.4
50°	1083.1	1077.1	1074.9	1061.6	1059.6
52.5°	1029.0	1024.6	1020.8	1007.5	1007.1
55°	947.9	943.9	938.6	926.4	926.4
57.5°	864.7	860.1	853.4	841.1	840.1
60°	806.5	803.5	795.2	782.9	781.9
62.5°	748.3	742.8	736.2	724.7	723.7
65°	658.9	651.9	645.6	634.3	633.3
67.5°	566.1	558.2	552.9	545.1	542.1
70°	502.1	495.1	489.8	483.6	480.6
72.5°	438.2	432.0	428.3	422.1	419.1
75°	346.4	338.3	336.1	330.9	328.9
77.5°	253.1	249.1	247.2	243.4	240.6
80°	191.6	191.6	190.6	188.5	186.5
82.5°	138.3	139.9	141.4	141.0	139.0
85°	68.7	74.7	77.9	78.9	77.9
87.5°	19.7	26.1	31.2	32.0	31.2
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.2	67.5	159.0	77.3	52.5
95°	24.6	124.8	427.3	277.9	194.7
97.5°	43.7	138.2	562.8	542.2	465.4
100°	58.4	146.6	637.4	672.8	609.7
102.5°	72.3	154.1	686.6	781.6	744.2
105°	96.3	166.5	724.5	937.3	925.3
107.5°	119.9	181.0	702.1	1062.3	1090.5
110°	136.3	193.4	666.1	1116.1	1169.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	152.7	205.8	634.1	1129.3	1220.0
115°	176.3	225.3	582.0	1103.4	1230.7
117.5°	199.6	245.9	551.5	1044.1	1193.2
120°	215.2	258.3	531.8	997.5	1153.8
122.5°	231.6	271.5	519.5	949.9	1103.8
125°	251.1	289.1	505.2	877.6	1030.9
127.5°	270.3	306.2	495.1	816.3	950.9
130°	281.8	316.9	491.9	773.6	905.9
132.5°	292.5	329.1	486.9	742.8	855.0
135°	308.4	344.5	484.7	692.0	796.2
137.5°	323.6	359.9	477.5	657.6	736.2
140°	335.1	368.1	477.5	632.9	705.0
142.5°	346.6	379.6	473.4	611.3	672.2
145°	364.8	391.9	475.5	588.2	634.3
147.5°	381.8	408.1	474.2	561.6	599.7
150°	392.5	415.5	477.5	549.9	580.0
152.5°	403.9	426.2	476.7	537.6	564.4
155°	418.1	436.1	481.6	521.0	540.0
157.5°	435.1	450.5	480.6	514.7	525.9
160°	441.7	454.7	484.7	506.4	514.4
162.5°	452.3	463.7	483.1	503.9	508.7
165°	462.2	469.2	487.8	495.1	502.1
167.5°	474.2	478.9	486.5	494.5	494.7
170°	477.5	480.5	489.8	488.9	493.9
172.5°	483.3	485.5	487.4	489.5	486.5
175°	488.8	486.8	488.8	484.7	483.7
177.5°	487.8	487.8	486.1	484.4	480.4
180°	483.7	483.7	483.7	483.7	483.7

(END OF REPORT)