

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: P521389

Luminaire Tested: **SQ4-F-025U-125D-93050-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521389
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-025U-125D-93050-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

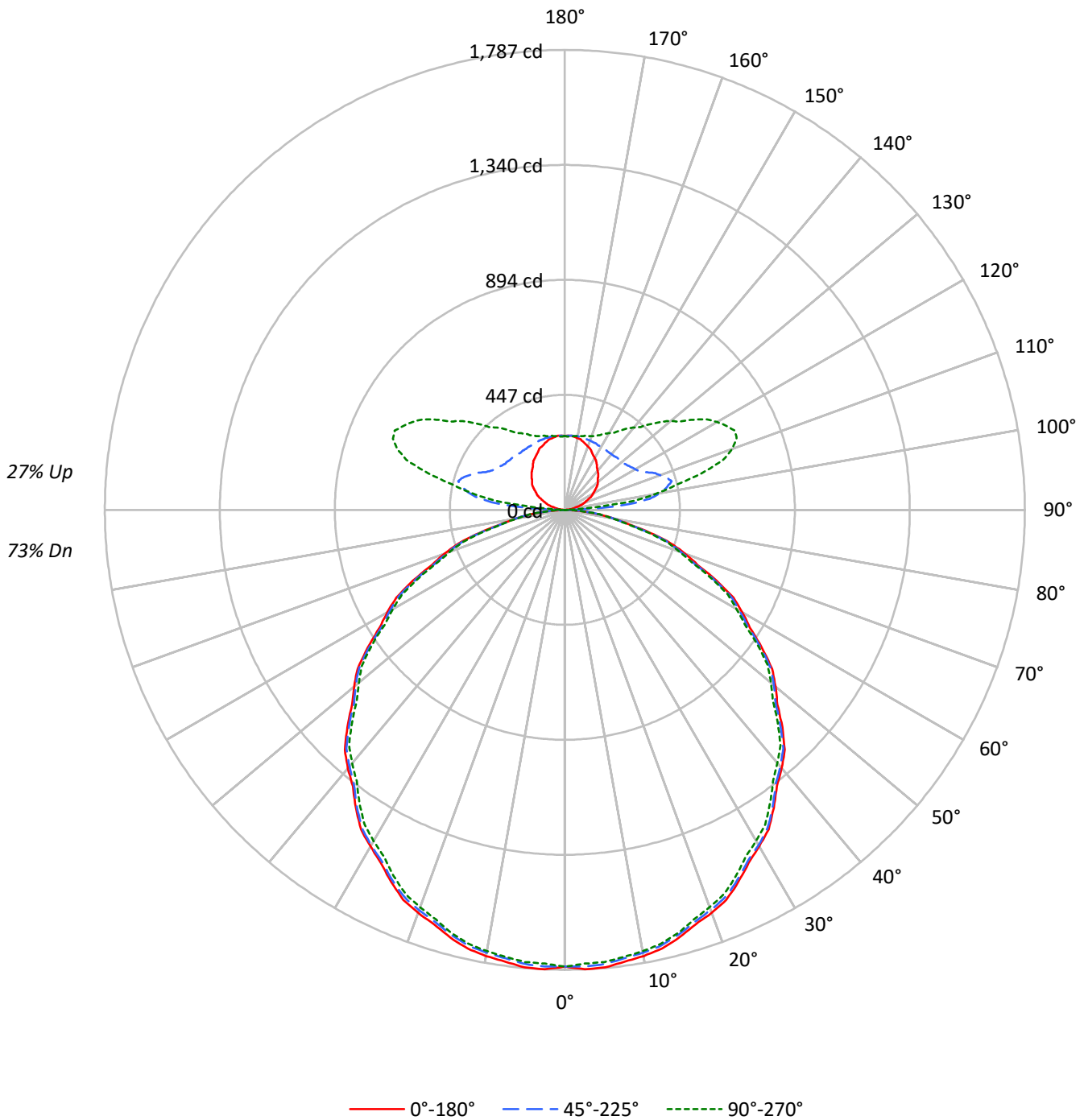
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6912.3 lumens
Efficiency: N/A
Efficacy: 98.9 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): 69.9
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	113	113	113	113	107	107	107	107	96	96	96	86	86	86	77	77	77	73
1	103	98	94	90	97	93	90	86	84	81	79	76	74	72	68	67	65	61
2	93	86	79	74	88	81	76	71	74	69	65	66	63	60	60	57	54	51
3	85	75	67	61	80	71	64	59	65	59	54	58	54	50	53	49	46	43
4	78	66	58	52	73	63	56	50	57	51	46	52	47	43	47	43	39	36
5	71	59	50	44	67	56	49	43	51	45	40	47	41	37	42	38	34	31
6	66	53	44	38	62	51	43	37	46	40	35	42	37	32	38	34	30	28
7	61	48	40	34	58	46	38	33	42	35	31	38	33	29	35	30	27	24
8	57	44	35	30	54	42	34	29	38	32	27	35	30	26	32	27	24	22
9	53	40	32	27	50	38	31	26	35	29	24	32	27	23	29	25	21	19
10	49	37	29	24	47	35	28	23	32	26	22	30	25	21	27	23	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16374	16374	16374
5°	16530	16409	16333
10°	16493	16371	16313
15°	16430	16324	16256
20°	16362	16253	16134
25°	16245	16153	15998
30°	16086	16031	15827
35°	15936	15856	15662
40°	15787	15678	15470
45°	15587	15455	15257
50°	15332	15217	14999
55°	15037	14890	14696
60°	14677	14472	14229
65°	14186	13900	13636
70°	13358	13032	12786
75°	12177	11817	11564
80°	10042	9989	9771
85°	7167	8130	8130



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.0	2.4
10°-20°	481.2	7.0
20°-30°	727.6	10.5
30°-40°	876.1	12.7
40°-50°	909.7	13.2
50°-60°	824.5	11.9
60°-70°	627.9	9.1
70°-80°	350.9	5.1
80°-90°	91.2	1.3
90°-100°	147.7	2.1
100°-110°	357.0	5.2
110°-120°	380.7	5.5
120°-130°	308.4	4.5
130°-140°	238.7	3.5
140°-150°	182.1	2.6
150°-160°	131.8	1.9
160°-170°	81.2	1.2
170°-180°	27.5	0.4
0°-30°	1376.8	19.9
0°-40°	2252.9	32.6
0°-60°	3987.1	57.7
0°-90°	5057.1	73.2
90°-120°	885.4	12.8
90°-150°	1614.6	23.4
90°-180°	1855.0	26.8
0°-180°	6912.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1775	1775	1775	1775	1775	
5°	1785	1766	1772	1765	1764	169
15°	1720	1702	1709	1705	1702	485
25°	1596	1578	1587	1572	1572	735
35°	1415	1402	1408	1392	1391	885
45°	1195	1185	1184	1169	1169	921
55°	935	931	926	914	914	835
65°	650	643	637	626	625	641
75°	342	334	332	326	324	360
85°	68	74	77	78	77	84
90°	0	0	0	0	0	3
95°	15	74	253	164	115	16
105°	57	99	429	555	548	60
115°	104	134	345	654	729	103
125°	149	171	299	520	610	133
135°	183	204	287	410	472	141
145°	216	232	282	348	376	135
155°	248	258	285	308	320	114
165°	274	278	289	293	297	77
175°	290	288	290	287	286	27
180°	286	286	286	286	286	

TEST NUMBER: P521389

CATALOG NUMBER: SQ4-F-025U-125D-93050-1D-UNV-STD-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1774.7	1774.7	1774.7	1774.7	1774.7
2.5°	1786.8	1771.0	1775.5	1772.1	1765.0
5°	1784.8	1766.0	1771.7	1764.6	1763.6
7.5°	1771.0	1752.3	1757.9	1753.6	1752.7
10°	1760.5	1741.8	1747.4	1742.3	1741.3
12.5°	1746.0	1728.0	1733.7	1727.8	1726.8
15°	1720.1	1702.3	1709.0	1704.9	1701.9
17.5°	1688.4	1670.2	1678.1	1671.9	1668.4
20°	1666.5	1646.8	1655.4	1645.3	1643.3
22.5°	1639.9	1620.1	1628.8	1616.2	1615.8
25°	1595.8	1578.0	1586.7	1572.5	1571.5
27.5°	1546.3	1529.7	1538.8	1521.6	1520.4
30°	1509.9	1494.1	1504.8	1487.6	1485.6
32.5°	1472.7	1459.3	1466.0	1451.2	1448.5
35°	1414.9	1402.1	1407.8	1391.6	1390.6
37.5°	1352.8	1340.0	1345.4	1330.0	1328.2
40°	1310.8	1298.0	1301.7	1285.5	1284.5
42.5°	1264.7	1254.2	1256.4	1239.5	1240.1
45°	1194.6	1184.7	1184.5	1169.3	1169.3
47.5°	1120.0	1110.1	1110.3	1096.3	1095.1
50°	1068.2	1062.3	1060.2	1047.0	1045.0
52.5°	1014.9	1010.5	1006.8	993.7	993.3
55°	934.8	930.9	925.7	913.6	913.6
57.5°	852.8	848.2	841.7	829.5	828.5
60°	795.4	792.4	784.3	772.1	771.1
62.5°	738.0	732.6	726.0	714.7	713.7
65°	649.8	642.9	636.7	625.6	624.6
67.5°	558.3	550.6	545.3	537.6	534.6
70°	495.2	488.3	483.1	477.0	474.0
72.5°	432.2	426.0	422.4	416.3	413.4
75°	341.6	333.7	331.5	326.4	324.4
77.5°	249.6	245.7	243.8	240.1	237.3
80°	189.0	189.0	188.0	185.9	183.9
82.5°	136.4	138.0	139.5	139.0	137.0
85°	67.7	73.6	76.8	77.8	76.8
87.5°	19.4	25.7	30.7	31.5	30.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.9	40.0	94.2	45.8	31.1
95°	14.6	73.9	253.1	164.5	115.3
97.5°	25.9	81.9	333.3	321.1	275.6
100°	34.6	86.8	377.5	398.5	361.1
102.5°	42.8	91.3	406.6	462.9	440.7
105°	57.0	98.6	429.0	555.1	548.0
107.5°	71.0	107.2	415.8	629.1	645.8
110°	80.7	114.5	394.4	661.0	692.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	90.4	121.9	375.5	668.7	722.5
115°	104.4	133.5	344.7	653.5	728.8
117.5°	118.2	145.6	326.6	618.3	706.6
120°	127.4	153.0	314.9	590.7	683.3
122.5°	137.1	160.8	307.7	562.5	653.7
125°	148.7	171.2	299.2	519.7	610.5
127.5°	160.1	181.3	293.2	483.4	563.1
130°	166.9	187.6	291.3	458.1	536.4
132.5°	173.2	194.9	288.4	439.9	506.3
135°	182.7	204.0	287.0	409.8	471.5
137.5°	191.6	213.1	282.8	389.4	436.0
140°	198.4	218.0	282.8	374.8	417.5
142.5°	205.2	224.8	280.4	362.0	398.1
145°	216.0	232.1	281.6	348.3	375.6
147.5°	226.1	241.7	280.8	332.6	355.1
150°	232.4	246.1	282.8	325.7	343.5
152.5°	239.2	252.4	282.3	318.3	334.2
155°	247.6	258.3	285.2	308.5	319.8
157.5°	257.7	266.8	284.6	304.8	311.4
160°	261.5	269.3	287.0	299.9	304.6
162.5°	267.9	274.6	286.1	298.4	301.2
165°	273.7	277.8	288.9	293.2	297.4
167.5°	280.8	283.6	288.1	292.9	293.0
170°	282.8	284.6	290.1	289.5	292.5
172.5°	286.2	287.5	288.6	289.9	288.1
175°	289.5	288.3	289.5	287.0	286.4
177.5°	288.9	288.9	287.9	286.9	284.5
180°	286.4	286.4	286.4	286.4	286.4

(END OF REPORT)