

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: P520351

Luminaire Tested: **SQ4-F-125U-125D-930-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520351
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G3-1910-536-20)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-125U-125D-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

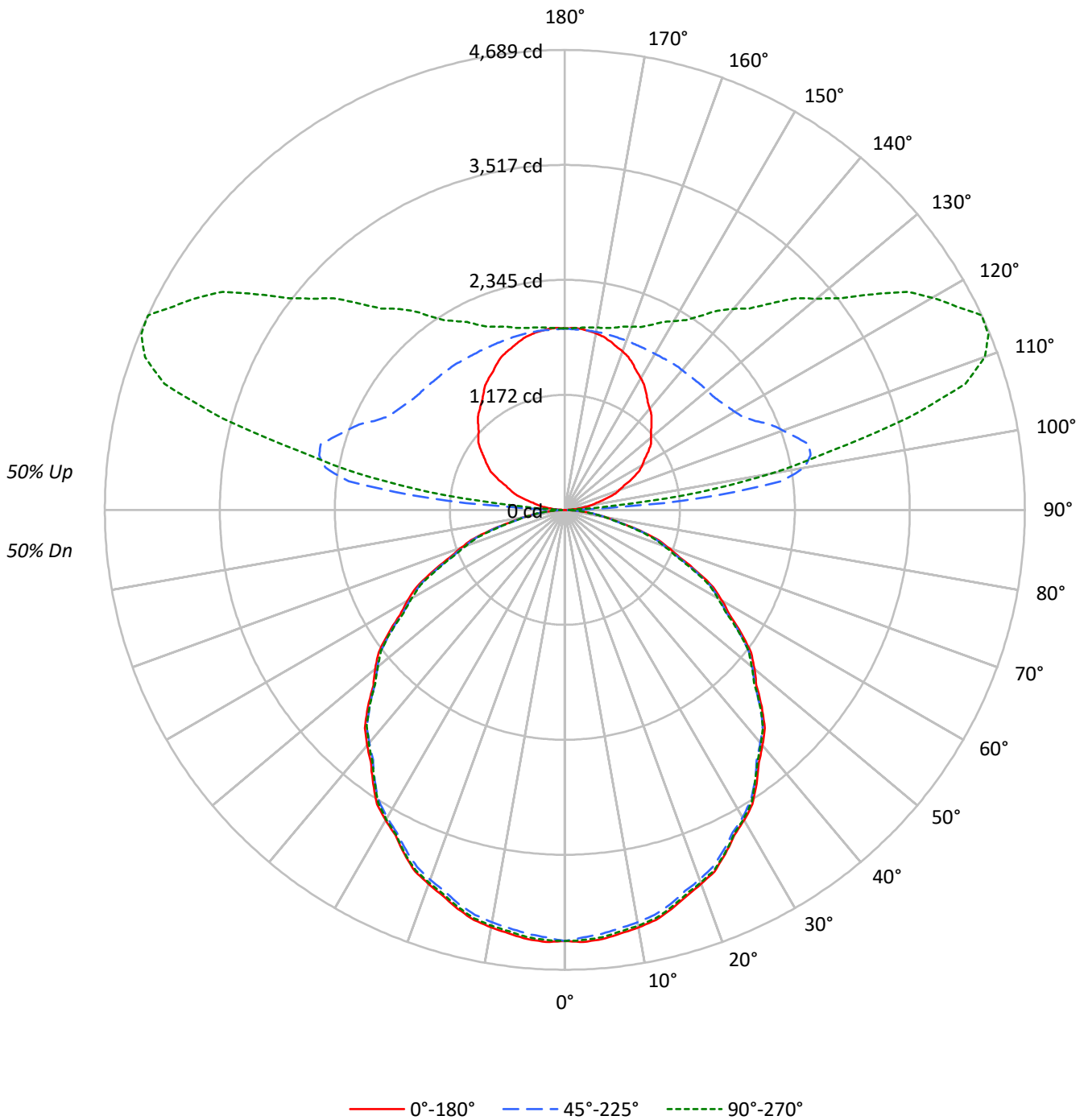
Lumens per Lamp: N/A
Luminaire Lumens: 23933.4 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 237.2
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	90	86	90	86	83	80	73	71	68	61	59	58	50	49	47	42
2	89	82	75	70	82	75	70	66	64	60	57	53	51	48	44	42	40	35
3	81	72	64	58	75	66	60	55	56	51	47	47	44	41	39	36	34	30
4	74	63	55	49	68	59	52	46	50	45	40	42	38	35	34	31	29	25
5	68	56	48	42	62	52	45	40	45	39	35	38	33	30	31	28	25	22
6	63	50	42	36	58	47	40	34	40	34	30	34	30	26	28	25	22	19
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	26	22	20	17
8	54	41	33	28	49	38	31	27	33	28	24	28	24	21	23	20	18	15
9	50	38	30	25	46	35	28	24	30	25	21	26	22	18	22	18	16	14
10	47	35	27	22	43	32	26	21	28	23	19	24	20	17	20	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13520	13520	13520
5°	13565	13393	13505
10°	13502	13336	13442
15°	13412	13250	13358
20°	13287	13137	13240
25°	13136	12997	13104
30°	12974	12862	12931
35°	12790	12681	12690
40°	12579	12443	12482
45°	12344	12207	12228
50°	12074	11935	11900
55°	11766	11598	11572
60°	11385	11132	11072
65°	10793	10565	10424
70°	10051	9790	9659
75°	8940	8740	8480
80°	7284	7070	7028
85°	4354	4954	4954



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	414.8	1.7
10°-20°	1181.4	4.9
20°-30°	1774.9	7.4
30°-40°	2117.8	8.8
40°-50°	2170.8	9.1
50°-60°	1934.9	8.1
60°-70°	1440.4	6.0
70°-80°	780.3	3.3
80°-90°	183.5	0.8
90°-100°	864.9	3.6
100°-110°	2329.7	9.7
110°-120°	2444.9	10.2
120°-130°	1984.0	8.3
130°-140°	1556.0	6.5
140°-150°	1194.6	5.0
150°-160°	858.9	3.6
160°-170°	524.8	2.2
170°-180°	177.0	0.7
0°-30°	3371.1	14.1
0°-40°	5488.9	22.9
0°-60°	9594.5	40.1
0°-90°	11998.7	50.1
90°-120°	5639.5	23.6
90°-150°	10374.0	43.3
90°-180°	11935.0	49.9
0°-180°	23933.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4396	4396	4396	4396	4396	
5°	4394	4387	4338	4377	4374	417
15°	4212	4203	4162	4198	4196	1188
25°	3871	3864	3830	3852	3862	1783
35°	3407	3404	3378	3378	3380	2130
45°	2838	2831	2807	2802	2812	2187
55°	2194	2187	2163	2146	2158	1960
65°	1483	1474	1452	1442	1432	1469
75°	752	752	736	721	714	799
85°	123	140	140	143	140	171
90°	5	14	28	31	31	12
95°	132	470	1418	725	502	138
105°	431	670	2576	3855	3617	453
115°	761	931	2146	4146	4689	749
125°	1039	1193	1926	3256	3832	927
135°	1251	1396	1872	2627	2974	965
145°	1446	1559	1849	2246	2412	907
155°	1642	1701	1832	2015	2080	756
165°	1780	1801	1839	1913	1922	502
175°	1851	1849	1842	1868	1863	176
180°	1849	1849	1849	1849	1849	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4396.3	4396.3	4396.3	4396.3	4396.3
2.5°	4409.8	4402.3	4363.4	4396.1	4390.5
5°	4393.9	4386.8	4338.3	4376.9	4374.5
7.5°	4356.6	4347.6	4303.4	4339.6	4335.3
10°	4323.7	4316.6	4270.5	4306.7	4304.3
12.5°	4283.0	4275.9	4229.8	4266.1	4265.6
15°	4212.4	4203.0	4161.6	4197.8	4195.5
17.5°	4127.8	4116.8	4076.0	4104.6	4109.3
20°	4059.9	4052.9	4014.0	4040.7	4045.5
22.5°	3990.3	3981.3	3940.5	3971.1	3975.8
25°	3871.2	3864.1	3830.1	3852.1	3861.6
27.5°	3740.6	3740.6	3709.2	3724.8	3730.5
30°	3653.5	3653.5	3622.0	3631.9	3641.4
32.5°	3560.6	3553.0	3523.3	3531.3	3540.7
35°	3406.7	3404.3	3377.6	3377.8	3380.1
37.5°	3247.5	3240.8	3211.7	3213.9	3225.2
40°	3133.3	3128.5	3099.4	3099.6	3109.1
42.5°	3017.1	3012.4	2987.1	2983.4	2987.1
45°	2838.2	2831.1	2806.6	2802.1	2811.5
47.5°	2647.4	2649.3	2620.3	2613.7	2618.9
50°	2523.6	2523.6	2494.6	2480.2	2487.3
52.5°	2393.9	2390.1	2361.0	2344.9	2361.5
55°	2194.5	2187.4	2163.0	2146.4	2158.2
57.5°	1990.3	1979.4	1955.0	1936.7	1943.3
60°	1851.0	1834.4	1809.8	1795.4	1800.1
62.5°	1705.8	1696.8	1670.5	1648.4	1658.8
65°	1483.2	1473.8	1451.8	1441.8	1432.4
67.5°	1265.0	1258.8	1234.0	1223.6	1217.5
70°	1117.8	1106.0	1088.8	1076.7	1074.2
72.5°	974.6	960.9	943.6	933.3	927.2
75°	752.4	752.4	735.5	720.8	713.7
77.5°	541.0	542.9	529.0	524.0	520.6
80°	411.3	411.3	399.2	394.5	396.8
82.5°	287.4	293.1	288.9	282.1	278.7
85°	123.4	140.0	140.4	142.7	140.4
87.5°	22.3	37.4	42.6	39.1	35.4
90°	4.7	13.9	28.2	30.6	30.6
92.5°	57.4	203.0	401.3	193.2	134.2
95°	131.9	470.4	1417.7	725.0	501.6
97.5°	210.6	538.5	2223.7	1857.7	1400.8
100°	270.9	565.6	2479.9	2594.7	2152.5
102.5°	329.3	603.8	2564.7	3146.6	2783.7
105°	431.0	670.5	2576.4	3854.6	3617.4
107.5°	527.1	740.7	2466.7	4218.4	4279.7
110°	591.1	793.8	2366.8	4331.4	4554.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	658.9	846.9	2270.7	4306.3	4673.4
115°	760.7	931.1	2145.5	4145.5	4689.0
117.5°	853.5	1013.3	2048.4	3888.8	4494.0
120°	913.8	1068.0	1999.5	3704.5	4326.3
122.5°	966.5	1118.9	1963.7	3516.1	4136.0
125°	1038.6	1192.8	1926.5	3256.1	3831.7
127.5°	1107.8	1259.8	1902.9	3026.7	3540.6
130°	1149.3	1301.3	1893.5	2895.2	3346.5
132.5°	1190.8	1340.8	1884.0	2779.5	3194.0
135°	1250.6	1395.6	1872.3	2626.7	2974.5
137.5°	1307.5	1446.6	1866.2	2497.2	2782.7
140°	1347.1	1480.7	1860.6	2417.5	2675.4
142.5°	1388.6	1512.9	1856.7	2343.1	2560.4
145°	1446.0	1558.8	1848.7	2245.8	2411.6
147.5°	1508.2	1606.3	1840.7	2164.0	2294.3
150°	1549.6	1634.9	1837.0	2112.7	2220.8
152.5°	1587.3	1661.4	1835.1	2070.7	2158.6
155°	1641.5	1701.4	1832.2	2015.1	2079.5
157.5°	1689.1	1735.5	1832.7	1976.0	2019.2
160°	1719.3	1758.3	1834.6	1953.1	1985.4
162.5°	1745.6	1777.4	1836.5	1934.1	1957.1
165°	1780.4	1801.2	1839.3	1912.6	1921.7
167.5°	1808.7	1820.7	1841.7	1896.0	1899.6
170°	1827.5	1832.1	1841.7	1886.4	1886.4
172.5°	1838.8	1839.7	1843.6	1877.0	1877.0
175°	1851.1	1848.8	1841.7	1867.5	1862.9
177.5°	1856.3	1852.6	1843.1	1858.1	1854.4
180°	1848.7	1848.7	1848.7	1848.7	1848.7

(END OF REPORT)