

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: P565085

Luminaire Tested: **SQ4-PW1-125U-125D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565085
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-125U-125D-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

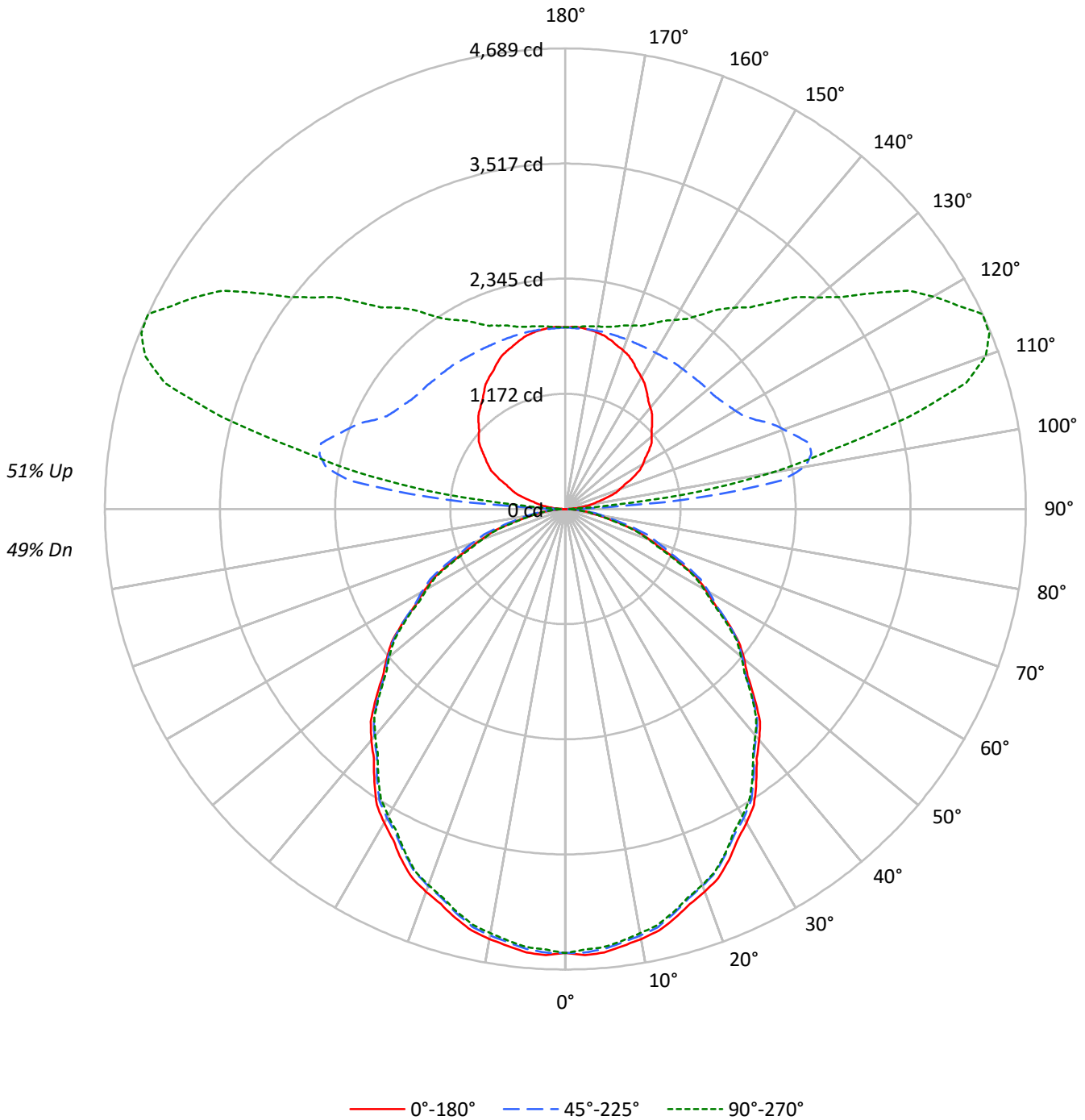
Lumens per Lamp: N/A
Luminaire Lumens: 23442.0 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 233.8
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	68	68	68	55	55	55	49
1	98	93	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47	42
2	89	82	76	70	82	75	70	66	64	60	57	53	50	48	43	41	40	35
3	81	72	65	59	75	66	60	55	56	52	48	47	44	41	38	36	34	30
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29	25
5	68	57	49	43	63	53	45	40	45	39	35	38	33	30	31	28	25	22
6	63	51	43	37	58	47	40	35	40	35	31	34	30	26	28	25	22	19
7	58	46	38	32	53	43	36	31	37	31	27	31	27	23	26	22	20	17
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	24	20	18	15
9	50	38	31	25	46	35	29	24	31	25	21	26	22	19	22	18	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13904	13904	13904
5°	13994	13884	13822
10°	13882	13770	13696
15°	13735	13583	13532
20°	13571	13362	13337
25°	13382	13138	13098
30°	13099	12901	12816
35°	12727	12547	12472
40°	12330	12138	12090
45°	11850	11694	11642
50°	11359	11264	11187
55°	10829	10829	10658
60°	10168	10364	9996
65°	9305	9769	9073
70°	8202	8990	7987
75°	7005	8047	6816
80°	5432	6773	5503
85°	3515	5201	4640



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	425.7	1.8
10°-20°	1202.0	5.1
20°-30°	1782.9	7.6
30°-40°	2086.2	8.9
40°-50°	2076.9	8.9
50°-60°	1793.5	7.7
60°-70°	1291.0	5.5
70°-80°	677.0	2.9
80°-90°	172.2	0.7
90°-100°	864.9	3.7
100°-110°	2329.7	9.9
110°-120°	2444.9	10.4
120°-130°	1984.0	8.5
130°-140°	1556.0	6.6
140°-150°	1194.6	5.1
150°-160°	858.9	3.7
160°-170°	524.8	2.2
170°-180°	177.0	0.8
0°-30°	3410.6	14.5
0°-40°	5496.8	23.4
0°-60°	9367.1	40.0
0°-90°	11507.2	49.1
90°-120°	5639.5	24.1
90°-150°	10374.1	44.3
90°-180°	11935.0	50.9
0°-180°	23442.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4521	4521	4521	4521	4521	
5°	4533	4482	4497	4485	4477	429
15°	4314	4259	4266	4258	4250	1216
25°	3944	3877	3872	3848	3860	1813
35°	3390	3343	3342	3310	3322	2119
45°	2725	2701	2689	2681	2677	2102
55°	2020	2016	2020	1992	1988	1802
65°	1279	1318	1342	1290	1247	1267
75°	590	644	677	632	574	632
85°	100	131	147	139	132	131
90°	5	14	28	31	31	13
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	1912	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°	4521.1	4521.1	4521.1	4521.1	4521.1
2.5°	4546.6	4509.2	4521.1	4511.0	4489.2
5°	4533.0	4482.4	4497.2	4485.1	4477.3
7.5°	4486.8	4440.1	4451.0	4438.1	4433.5
10°	4445.4	4398.7	4409.6	4393.4	4385.7
12.5°	4397.6	4347.8	4358.6	4342.5	4337.9
15°	4314.0	4259.4	4266.2	4258.0	4250.2
17.5°	4216.8	4161.5	4162.6	4149.8	4148.3
20°	4146.7	4088.2	4082.9	4067.2	4075.0
22.5°	4070.2	4008.6	4003.3	3981.2	3992.1
25°	3943.5	3877.3	3871.8	3848.2	3859.9
27.5°	3796.9	3731.5	3731.6	3698.4	3710.9
30°	3688.6	3626.3	3632.8	3593.3	3608.9
32.5°	3573.9	3517.8	3521.3	3481.8	3497.4
35°	3389.8	3343.1	3342.0	3310.4	3322.1
37.5°	3201.8	3160.5	3154.0	3135.8	3138.9
40°	3071.2	3036.1	3023.4	3011.4	3011.4
42.5°	2934.1	2902.2	2889.5	2880.7	2877.6
45°	2724.6	2701.2	2688.8	2680.7	2676.8
47.5°	2517.5	2495.7	2484.8	2479.1	2475.2
50°	2374.1	2358.5	2354.2	2342.1	2338.2
52.5°	2230.7	2221.3	2217.1	2201.9	2198.0
55°	2019.6	2015.7	2019.6	1991.6	1987.7
57.5°	1799.7	1805.9	1818.8	1781.1	1771.8
60°	1653.1	1668.7	1685.0	1640.8	1625.2
62.5°	1503.3	1528.2	1551.1	1500.4	1478.6
65°	1278.7	1317.6	1342.4	1289.6	1246.8
67.5°	1062.0	1110.3	1140.0	1083.2	1034.9
70°	912.2	966.7	999.8	942.8	888.3
72.5°	781.5	842.3	869.2	815.3	760.8
75°	589.5	644.1	677.2	632.0	573.6
77.5°	418.3	469.7	497.1	457.8	409.5
80°	306.7	361.2	382.4	349.6	310.7
82.5°	217.5	262.7	277.2	257.5	231.0
85°	99.6	130.7	147.4	139.2	131.5
87.5°	26.4	50.1	66.2	66.7	69.9
90°	4.7	13.9	28.3	30.6	30.6
92.5°	57.5	203.0	401.3	193.2	134.2
95°	131.9	470.4	1417.8	725.0	501.6
97.5°	210.5	538.5	2223.7	1857.7	1400.8
100°	270.8	565.6	2479.9	2594.7	2152.5
102.5°	329.2	603.7	2564.7	3146.6	2783.7
105°	431.0	670.5	2576.5	3854.6	3617.4
107.5°	527.1	740.8	2466.7	4218.4	4279.7
110°	591.1	793.8	2366.9	4331.4	4554.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	659.0	846.9	2270.8	4306.4	4673.4
115°	760.7	931.1	2145.5	4145.5	4689.0
117.5°	853.5	1013.3	2048.5	3888.8	4494.0
120°	913.8	1068.1	1999.5	3704.5	4326.3
122.5°	966.5	1119.0	1963.7	3516.1	4136.0
125°	1038.6	1192.9	1926.5	3256.0	3831.7
127.5°	1107.8	1259.8	1902.9	3026.7	3540.6
130°	1149.3	1301.3	1893.5	2895.2	3346.6
132.5°	1190.7	1340.9	1884.1	2779.5	3194.0
135°	1250.6	1395.6	1872.3	2626.8	2974.5
137.5°	1307.5	1446.6	1866.2	2497.2	2782.8
140°	1347.1	1480.7	1860.5	2417.5	2675.4
142.5°	1388.6	1512.9	1856.7	2343.1	2560.4
145°	1446.0	1558.9	1848.7	2245.8	2411.6
147.5°	1508.2	1606.3	1840.7	2164.0	2294.3
150°	1549.6	1634.8	1837.0	2112.6	2220.8
152.5°	1587.3	1661.5	1835.1	2070.7	2158.7
155°	1641.5	1701.4	1832.3	2015.1	2079.5
157.5°	1689.1	1735.6	1832.7	1976.0	2019.2
160°	1719.2	1758.4	1834.6	1953.1	1985.3
162.5°	1745.6	1777.4	1836.5	1934.0	1957.1
165°	1780.4	1801.2	1839.3	1912.5	1921.7
167.5°	1808.7	1820.7	1841.7	1895.9	1899.6
170°	1827.5	1832.2	1841.7	1886.4	1886.4
172.5°	1838.9	1839.8	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)