

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: P564989

Luminaire Tested: **SQ4-PW1-100U-125D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564989
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PW1-100U-125D-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21093.9 lumens
Efficiency: N/A
Efficacy: 98.2 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

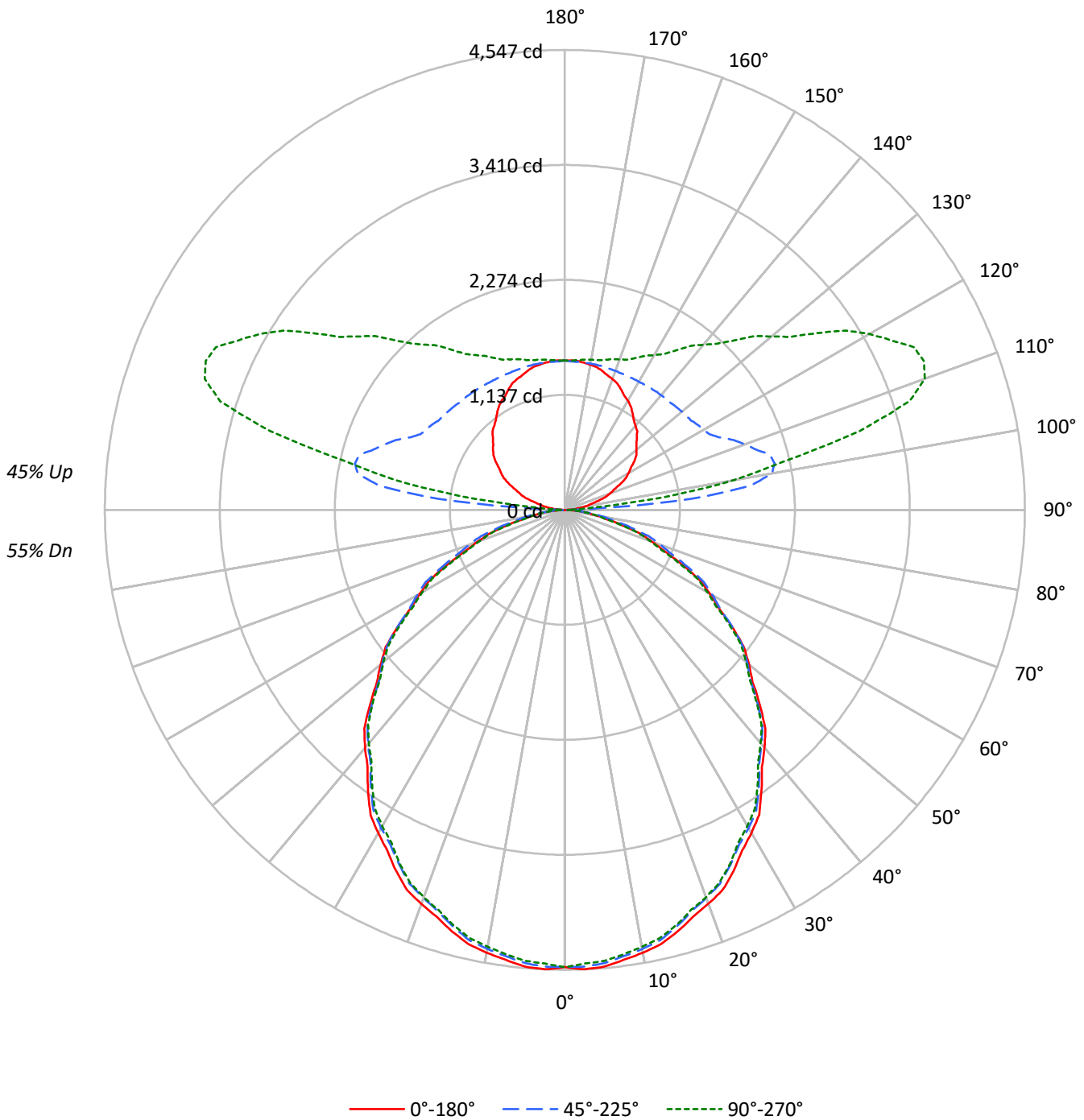
Input Watts (W): 214.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60	55		
1	99	95	91	87	92	88	85	82	76	73	71	64	62	61	53	52	51	46		
2	90	83	77	71	83	77	72	67	66	62	59	56	53	51	47	45	43	39		
3	82	73	65	60	76	68	61	56	59	54	49	50	46	43	42	39	37	33		
4	75	64	57	50	70	60	53	48	52	47	42	44	40	37	37	34	32	28		
5	69	57	49	43	64	54	46	41	47	41	36	40	36	32	34	30	28	25		
6	64	52	43	38	59	48	41	36	42	36	32	36	32	28	31	27	24	22		
7	59	47	39	33	55	44	36	31	38	32	28	33	28	25	28	24	22	19		
8	55	42	35	29	51	40	33	28	35	29	25	30	26	22	26	22	19	17		
9	51	39	31	26	47	36	30	25	32	26	22	28	23	20	24	20	18	15		
10	48	36	28	23	44	33	27	22	29	24	20	26	21	18	22	19	16	14		

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	2.0
10°-20°	1202.0	5.7
20°-30°	1782.9	8.5
30°-40°	2086.2	9.9
40°-50°	2076.9	9.8
50°-60°	1793.5	8.5
60°-70°	1291.0	6.1
70°-80°	677.0	3.2
80°-90°	170.9	0.8
90°-100°	691.1	3.3
100°-110°	1907.8	9.0
110°-120°	1967.5	9.3
120°-130°	1581.1	7.5
130°-140°	1242.6	5.9
140°-150°	953.0	4.5
150°-160°	684.9	3.2
160°-170°	418.9	2.0
170°-180°	141.2	0.7
0°-30°	3410.6	16.2
0°-40°	5496.8	26.1
0°-60°	9367.1	44.4
0°-90°	11505.9	54.5
90°-120°	4566.4	21.6
90°-150°	8343.0	39.6
90°-180°	9588.0	45.5
0°-180°	21093.9	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	9	19	21	24	11
95°	102	374	1254	515	335	109
105°	340	525	2099	3204	3017	362
115°	609	736	1690	3347	3806	599
125°	836	951	1532	2593	3043	744
135°	1006	1114	1490	2100	2368	778
145°	1166	1247	1471	1788	1924	730
155°	1315	1359	1459	1604	1655	606
165°	1424	1442	1466	1523	1535	401
175°	1476	1478	1469	1490	1485	140
180°	1476	1476	1476	1476	1476	

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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	49.2	64.3	64.9	68.5
90°	4.7	9.3	18.9	21.3	23.6
92.5°	42.5	176.4	315.4	115.1	89.7
95°	101.5	373.9	1253.7	515.3	335.3
97.5°	168.1	418.8	1857.2	1429.9	1035.6
100°	217.2	445.8	2080.1	2094.8	1702.3
102.5°	264.4	476.4	2123.5	2588.2	2216.1
105°	340.0	524.7	2099.0	3204.4	3017.4
107.5°	420.3	584.6	1981.9	3501.6	3569.9
110°	476.9	624.7	1891.2	3565.5	3787.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	527.9	670.1	1806.2	3515.0	3841.9
115°	609.1	736.1	1690.5	3346.6	3806.0
117.5°	680.0	806.5	1614.5	3109.6	3632.2
120°	727.2	851.9	1584.3	2949.1	3475.5
122.5°	772.5	891.7	1559.7	2799.3	3297.9
125°	835.8	951.2	1532.3	2593.2	3043.4
127.5°	889.6	1005.1	1516.3	2419.0	2807.3
130°	925.5	1041.0	1508.7	2312.4	2665.6
132.5°	959.5	1069.4	1501.2	2222.9	2542.8
135°	1005.8	1114.3	1489.8	2100.3	2368.1
137.5°	1057.7	1156.6	1484.2	1997.4	2226.0
140°	1086.1	1183.0	1480.4	1928.8	2129.7
142.5°	1118.2	1207.8	1476.6	1867.8	2044.7
145°	1166.4	1247.2	1470.9	1788.0	1924.3
147.5°	1212.6	1283.3	1465.7	1720.8	1826.5
150°	1246.6	1304.3	1463.8	1680.6	1766.1
152.5°	1273.1	1327.1	1462.0	1646.3	1717.0
155°	1315.1	1359.0	1459.1	1604.3	1655.1
157.5°	1353.8	1387.5	1459.6	1573.7	1608.3
160°	1376.5	1406.5	1461.5	1556.5	1581.9
162.5°	1395.4	1421.7	1463.4	1541.3	1561.1
165°	1423.7	1442.2	1466.2	1523.1	1534.7
167.5°	1445.4	1456.5	1468.6	1512.1	1515.8
170°	1456.8	1466.0	1468.6	1506.3	1506.3
172.5°	1466.2	1471.7	1468.6	1498.7	1496.9
175°	1475.7	1478.0	1468.6	1489.7	1485.1
177.5°	1479.4	1477.6	1468.1	1481.2	1477.5
180°	1475.7	1475.7	1475.7	1475.7	1475.7

(END OF REPORT)