

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: P563653

Luminaire Tested: **SQ4-PP3-100U-125D-940-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563653
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-100U-125D-940-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

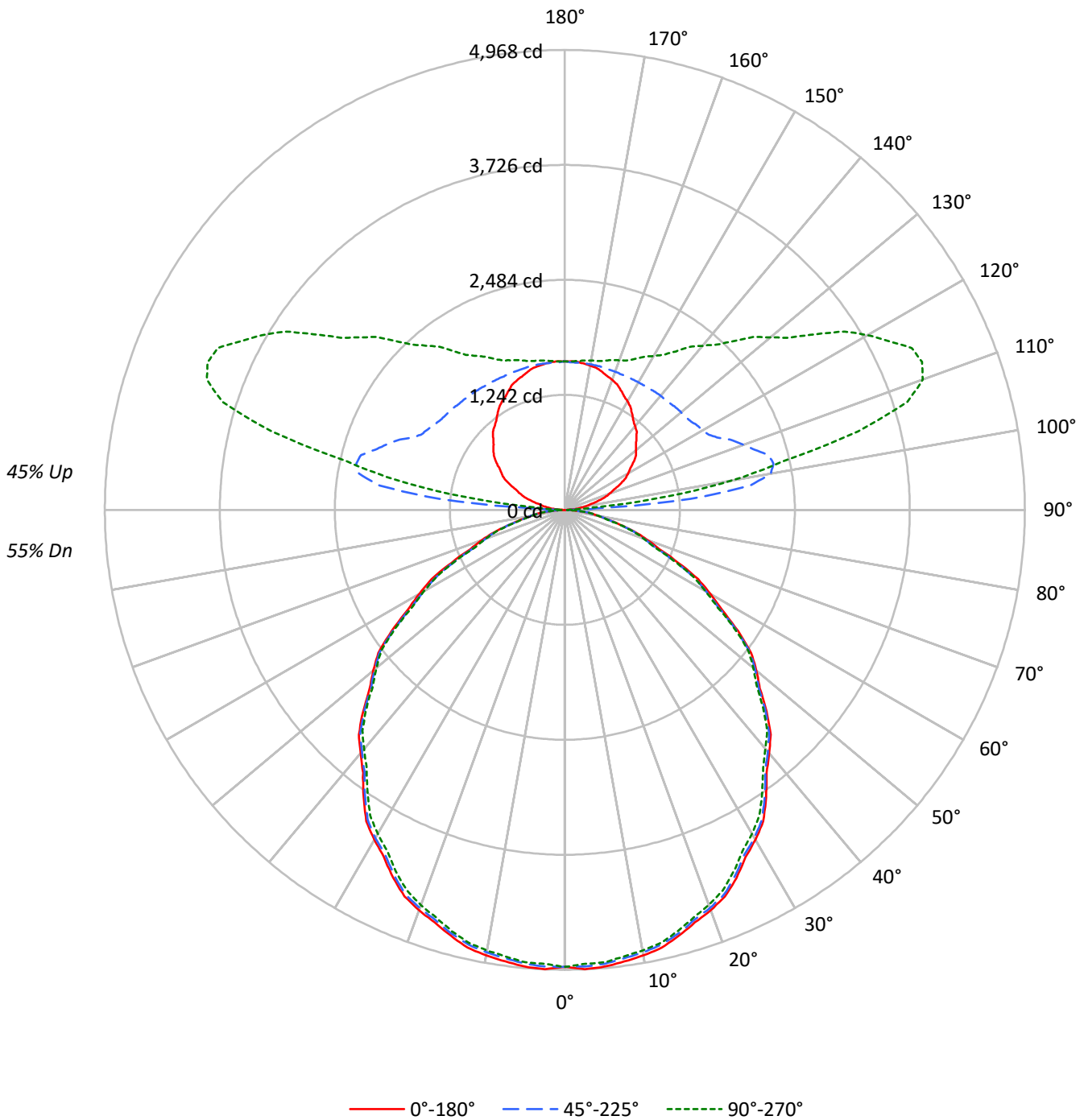
Lumens per Lamp: N/A
Luminaire Lumens: 23053.7 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

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				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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55
1	99	95	91	88	92	88	85	82	76	73	71	64	63	61	54	53	52	47
2	90	83	77	72	84	77	72	68	67	63	59	57	54	51	48	46	44	39
3	83	73	66	60	76	68	62	57	59	54	50	50	47	44	42	40	37	34
4	76	65	57	51	70	61	54	48	52	47	43	45	41	37	38	35	32	29
5	69	58	50	44	64	54	47	41	47	41	37	40	36	33	34	31	28	25
6	64	52	44	38	59	49	41	36	42	37	32	37	32	29	31	28	25	22
7	59	47	39	33	55	44	37	32	38	33	28	33	29	25	28	25	22	20
8	55	43	35	29	51	40	33	28	35	29	25	30	26	23	26	22	20	18
9	51	39	31	26	48	37	30	25	32	27	23	28	23	20	24	21	18	16
10	48	36	28	24	44	34	27	23	30	24	20	26	21	18	22	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15181	15181	15181
5°	15293	15199	15146
10°	15267	15159	15091
15°	15166	15083	15001
20°	15065	14980	14867
25°	14886	14783	14637
30°	14611	14534	14350
35°	14229	14131	13952
40°	13773	13687	13530
45°	13398	13303	13171
50°	12916	12833	12709
55°	12248	12085	11993
60°	11150	10830	10777
65°	9823	9414	9382
70°	8480	8130	8130
75°	7299	7197	7094
80°	6436	6512	6360
85°	5039	5494	5494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.8	2.0
10°-20°	1332.8	5.8
20°-30°	1996.4	8.7
30°-40°	2341.6	10.2
40°-50°	2348.9	10.2
50°-60°	2003.8	8.7
60°-70°	1306.8	5.7
70°-80°	655.6	2.8
80°-90°	184.8	0.8
90°-100°	750.7	3.3
100°-110°	2072.5	9.0
110°-120°	2137.5	9.3
120°-130°	1717.6	7.5
130°-140°	1349.9	5.9
140°-150°	1035.3	4.5
150°-160°	744.1	3.2
160°-170°	455.0	2.0
170°-180°	153.4	0.7
0°-30°	3796.0	16.5
0°-40°	6137.6	26.6
0°-60°	10490.4	45.5
0°-90°	12637.6	54.8
90°-120°	4960.7	21.5
90°-150°	9063.6	39.3
90°-180°	10416.0	45.2
0°-180°	23053.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4936	4936	4936	4936	4936	
5°	4954	4907	4923	4906	4906	470
15°	4763	4717	4737	4720	4711	1344
25°	4387	4336	4357	4318	4313	2017
35°	3790	3752	3764	3721	3716	2367
45°	3080	3059	3059	3028	3028	2372
55°	2284	2276	2254	2241	2237	2030
65°	1350	1324	1294	1285	1289	1347
75°	614	614	606	601	597	666
85°	143	156	156	156	156	168
90°	5	10	20	23	26	13
95°	110	406	1362	560	364	118
105°	369	570	2280	3481	3278	393
115°	662	800	1836	3636	4135	650
125°	908	1033	1665	2817	3306	808
135°	1093	1210	1618	2282	2573	845
145°	1267	1355	1598	1942	2090	793
155°	1429	1476	1585	1743	1798	658
165°	1547	1567	1593	1655	1667	436
175°	1603	1606	1595	1618	1613	152
180°	1603	1603	1603	1603	1603	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4936.3	4936.3	4936.3	4936.3	4936.3
2.5°	4967.5	4926.9	4936.3	4929.0	4908.7
5°	4953.7	4907.1	4923.4	4906.1	4906.1
7.5°	4919.9	4869.1	4885.3	4868.0	4867.1
10°	4888.8	4838.0	4854.1	4836.7	4832.5
12.5°	4843.8	4793.0	4812.6	4791.8	4791.0
15°	4763.3	4716.8	4737.3	4719.8	4711.4
17.5°	4672.4	4621.7	4646.5	4622.2	4618.8
20°	4603.2	4552.5	4577.3	4542.7	4542.7
22.5°	4520.2	4469.4	4497.7	4452.7	4452.7
25°	4386.9	4336.1	4356.6	4317.6	4313.4
27.5°	4228.6	4178.6	4200.0	4155.9	4155.0
30°	4114.3	4067.8	4092.7	4045.0	4040.8
32.5°	3989.7	3946.6	3964.7	3917.0	3912.7
35°	3789.9	3751.8	3763.9	3720.6	3716.3
37.5°	3579.6	3540.7	3554.5	3517.3	3515.6
40°	3430.8	3405.4	3409.2	3378.7	3370.2
42.5°	3292.3	3263.6	3267.2	3236.9	3235.2
45°	3080.4	3059.2	3058.7	3028.4	3028.4
47.5°	2855.4	2839.3	2834.6	2809.5	2808.7
50°	2699.6	2686.9	2682.3	2660.6	2656.4
52.5°	2537.0	2531.0	2516.2	2498.0	2497.2
55°	2284.3	2275.8	2254.0	2240.9	2236.7
57.5°	2010.0	1993.1	1968.5	1949.5	1952.9
60°	1812.7	1795.8	1760.8	1752.2	1752.2
62.5°	1622.4	1602.1	1567.0	1555.0	1561.8
65°	1349.8	1324.4	1293.6	1285.0	1289.2
67.5°	1102.4	1079.5	1046.1	1046.0	1042.6
70°	943.1	930.5	904.2	904.2	904.2
72.5°	801.2	795.3	776.1	776.1	772.7
75°	614.3	614.3	605.7	601.3	597.0
77.5°	460.3	462.0	457.7	453.2	445.6
80°	363.4	371.9	367.7	363.3	359.1
82.5°	273.4	281.9	281.2	273.4	272.6
85°	142.8	155.5	155.7	155.7	155.7
87.5°	39.1	53.6	59.5	60.1	64.0
90°	5.1	10.1	20.5	23.1	25.6
92.5°	46.2	191.6	342.7	125.1	97.5
95°	110.3	406.2	1362.0	559.8	364.2
97.5°	182.6	455.0	2017.6	1553.3	1125.0
100°	236.0	484.3	2259.7	2275.7	1849.3
102.5°	287.3	517.5	2306.9	2811.8	2407.5
105°	369.4	570.0	2280.2	3481.2	3278.0
107.5°	456.6	635.1	2153.0	3804.0	3878.2
110°	518.1	678.6	2054.5	3873.4	4114.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	573.5	728.0	1962.2	3818.6	4173.7
115°	661.8	799.7	1836.5	3635.6	4134.7
117.5°	738.7	876.1	1753.9	3378.1	3945.9
120°	790.0	925.4	1721.1	3203.8	3775.6
122.5°	839.3	968.7	1694.4	3041.0	3582.7
125°	908.0	1033.4	1664.7	2817.2	3306.2
127.5°	966.5	1091.9	1647.2	2627.9	3049.7
130°	1005.5	1130.9	1639.0	2512.1	2895.8
132.5°	1042.4	1161.8	1630.8	2414.9	2762.5
135°	1092.7	1210.5	1618.5	2281.7	2572.7
137.5°	1149.1	1256.4	1612.3	2170.0	2418.2
140°	1179.9	1285.2	1608.2	2095.4	2313.6
142.5°	1214.8	1312.1	1604.1	2029.1	2221.3
145°	1267.1	1354.9	1598.0	1942.5	2090.4
147.5°	1317.4	1394.1	1592.3	1869.4	1984.2
150°	1354.3	1417.0	1590.3	1825.8	1918.6
152.5°	1383.0	1441.7	1588.2	1788.5	1865.2
155°	1428.7	1476.3	1585.1	1742.9	1798.0
157.5°	1470.7	1507.4	1585.7	1709.6	1747.2
160°	1495.4	1528.0	1587.7	1690.9	1718.5
162.5°	1515.9	1544.5	1589.8	1674.4	1695.9
165°	1546.7	1566.7	1592.8	1654.7	1667.2
167.5°	1570.3	1582.3	1595.4	1642.7	1646.7
170°	1582.6	1592.6	1595.4	1636.4	1636.4
172.5°	1592.8	1598.9	1595.4	1628.2	1626.2
175°	1603.1	1605.6	1595.4	1618.4	1613.4
177.5°	1607.2	1605.2	1594.9	1609.2	1605.1
180°	1603.1	1603.1	1603.1	1603.1	1603.1

(END OF REPORT)