

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: P564316

Luminaire Tested: **SQ4-PR1-100U-125D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564316
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-100U-125D-840-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

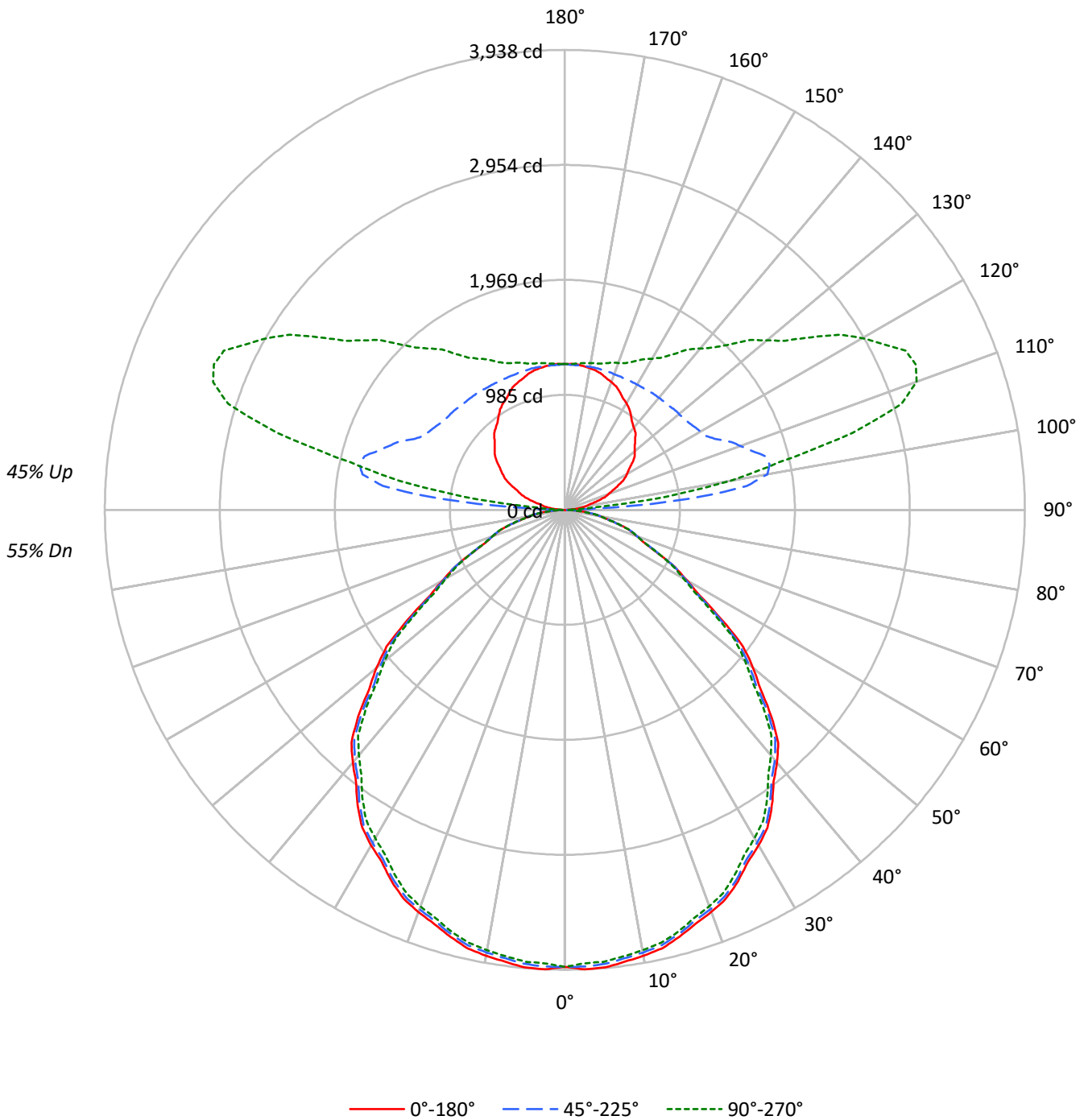
Lumens per Lamp: N/A
Luminaire Lumens: 17899.2 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 140.6
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	100	100	100	100	86	86	86	73	73	73	60	60	60	55
1	99	95	91	88	92	88	85	82	76	73	71	64	63	61	54	53	52	47
2	91	83	77	72	84	78	72	68	67	63	60	57	54	52	48	46	44	40
3	83	73	66	60	77	69	62	57	59	54	50	51	47	44	43	40	38	34
4	76	65	57	51	70	61	54	49	53	47	43	45	41	38	38	35	33	29
5	70	58	50	44	65	54	47	42	47	42	37	41	36	33	35	31	29	26
6	64	52	44	38	60	49	42	37	43	37	33	37	32	29	31	28	25	23
7	60	47	39	34	55	44	37	32	39	33	29	34	29	26	29	25	23	20
8	55	43	35	30	51	40	33	29	35	30	26	31	26	23	26	23	20	18
9	51	39	32	27	48	37	30	26	33	27	23	28	24	21	24	21	18	16
10	48	36	29	24	45	34	27	23	30	25	21	26	22	19	23	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18053	18053	18053
5°	18215	18075	17982
10°	18158	18032	17937
15°	18078	17965	17869
20°	17987	17871	17739
25°	17860	17740	17535
30°	17668	17542	17291
35°	17407	17255	17008
40°	17010	16827	16523
45°	16317	16031	15701
50°	15095	14732	14442
55°	13176	12877	12606
60°	11103	11009	10791
65°	9603	9640	9566
70°	8820	8866	8866
75°	8472	8472	8530
80°	7970	8060	7970
85°	6420	7135	7135



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.1	2.1
10°-20°	1058.8	5.9
20°-30°	1597.0	8.9
30°-40°	1902.9	10.6
40°-50°	1876.1	10.5
50°-60°	1433.8	8.0
60°-70°	887.3	5.0
70°-80°	504.0	2.8
80°-90°	155.9	0.9
90°-100°	584.8	3.3
100°-110°	1614.4	9.0
110°-120°	1664.9	9.3
120°-130°	1337.9	7.5
130°-140°	1051.5	5.9
140°-150°	806.4	4.5
150°-160°	579.6	3.2
160°-170°	354.4	2.0
170°-180°	119.5	0.7
0°-30°	3025.9	16.9
0°-40°	4928.8	27.5
0°-60°	8238.6	46.0
0°-90°	9785.7	54.7
90°-120°	3864.1	21.6
90°-150°	7060.0	39.4
90°-180°	8113.0	45.3
0°-180°	17899.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3913	3913	3913	3913	3913	
5°	3934	3891	3903	3890	3883	373
15°	3785	3746	3762	3748	3742	1068
25°	3509	3466	3485	3448	3445	1615
35°	3091	3055	3064	3024	3020	1929
45°	2501	2468	2457	2413	2407	1916
55°	1638	1612	1601	1574	1567	1468
65°	880	873	883	876	876	891
75°	475	475	475	479	479	502
85°	121	128	135	135	135	141
90°	4	8	16	18	20	11
95°	86	316	1061	436	284	92
105°	288	444	1776	2712	2553	306
115°	516	623	1430	2832	3221	507
125°	707	805	1297	2194	2575	629
135°	851	943	1261	1777	2004	659
145°	987	1055	1245	1513	1628	618
155°	1113	1150	1235	1358	1401	513
165°	1205	1220	1241	1289	1299	340
175°	1249	1251	1243	1261	1257	119
180°	1249	1249	1249	1249	1249	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3913.4	3913.4	3913.4	3913.4	3913.4
2.5°	3937.7	3903.4	3913.4	3904.9	3886.5
5°	3933.6	3890.8	3903.3	3889.7	3883.1
7.5°	3903.3	3861.1	3873.6	3860.1	3856.1
10°	3876.3	3836.8	3849.4	3835.7	3829.1
12.5°	3846.7	3804.5	3819.7	3803.4	3796.8
15°	3785.3	3745.8	3761.7	3748.1	3741.5
17.5°	3717.9	3675.7	3691.6	3675.9	3667.4
20°	3664.0	3624.4	3640.4	3616.7	3613.4
22.5°	3604.7	3565.1	3581.1	3549.4	3548.7
25°	3508.9	3466.1	3485.3	3448.2	3444.9
27.5°	3395.0	3355.4	3371.4	3333.6	3329.6
30°	3316.8	3277.2	3293.2	3252.6	3246.0
32.5°	3227.8	3190.9	3204.2	3163.7	3159.7
35°	3091.0	3054.7	3064.0	3023.5	3020.2
37.5°	2935.2	2902.3	2907.6	2863.0	2859.7
40°	2824.7	2791.7	2794.3	2747.1	2743.8
42.5°	2703.3	2670.4	2667.6	2620.3	2617.0
45°	2501.1	2468.1	2457.3	2413.3	2406.7
47.5°	2270.5	2237.6	2217.3	2181.4	2176.8
50°	2103.3	2070.4	2052.8	2022.2	2012.3
52.5°	1922.7	1889.7	1874.8	1846.9	1837.0
55°	1638.2	1611.8	1601.1	1574.0	1567.4
57.5°	1367.8	1350.0	1346.9	1320.6	1318.0
60°	1203.4	1193.5	1193.2	1169.6	1169.6
62.5°	1063.1	1055.9	1061.1	1045.5	1042.9
65°	879.8	873.2	883.1	876.4	876.4
67.5°	734.8	734.8	740.9	738.2	738.2
70°	653.9	653.9	657.3	657.3	657.3
72.5°	581.1	578.5	587.2	587.1	584.5
75°	475.3	475.3	475.3	478.6	478.6
77.5°	370.1	370.8	373.5	372.7	370.1
80°	300.0	303.3	303.4	300.0	300.0
82.5°	229.9	233.2	233.3	232.5	229.9
85°	121.3	127.9	134.8	134.8	134.8
87.5°	35.9	47.2	57.1	57.5	55.2
90°	4.0	7.9	16.0	18.0	20.0
92.5°	36.0	149.3	266.9	97.4	75.9
95°	85.9	316.4	1060.9	436.1	283.7
97.5°	142.3	354.4	1571.6	1210.0	876.3
100°	183.8	377.2	1760.2	1772.6	1440.5
102.5°	223.8	403.1	1796.9	2190.2	1875.3
105°	287.7	444.0	1776.2	2711.6	2553.4
107.5°	355.6	494.7	1677.1	2963.1	3020.9
110°	403.6	528.6	1600.3	3017.1	3204.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	446.7	567.1	1528.4	2974.4	3251.0
115°	515.5	622.9	1430.5	2831.9	3220.7
117.5°	575.4	682.5	1366.2	2631.3	3073.6
120°	615.4	720.9	1340.6	2495.6	2941.0
122.5°	653.7	754.5	1319.8	2368.8	2790.7
125°	707.3	804.9	1296.7	2194.4	2575.3
127.5°	752.8	850.5	1283.1	2047.0	2375.5
130°	783.2	880.9	1276.7	1956.8	2255.7
132.5°	812.0	904.9	1270.3	1881.0	2151.8
135°	851.1	942.9	1260.7	1777.3	2003.9
137.5°	895.1	978.7	1255.9	1690.3	1883.7
140°	919.1	1001.1	1252.7	1632.2	1802.1
142.5°	946.2	1022.0	1249.5	1580.6	1730.2
145°	987.0	1055.4	1244.7	1513.1	1628.3
147.5°	1026.1	1085.9	1240.3	1456.1	1545.6
150°	1054.9	1103.7	1238.7	1422.2	1494.5
152.5°	1077.3	1123.0	1237.1	1393.1	1452.9
155°	1112.9	1150.0	1234.7	1357.6	1400.6
157.5°	1145.6	1174.1	1235.1	1331.7	1361.0
160°	1164.8	1190.2	1236.7	1317.1	1338.6
162.5°	1180.8	1203.1	1238.3	1304.2	1321.0
165°	1204.8	1220.4	1240.7	1288.9	1298.7
167.5°	1223.1	1232.5	1242.7	1279.5	1282.7
170°	1232.7	1240.5	1242.7	1274.7	1274.7
172.5°	1240.7	1245.4	1242.7	1268.3	1266.7
175°	1248.7	1250.7	1242.7	1260.6	1256.7
177.5°	1251.9	1250.3	1242.3	1253.4	1250.3
180°	1248.7	1248.7	1248.7	1248.7	1248.7

(END OF REPORT)