

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: P564065

Luminaire Tested: **SQ4-PR1-075U-075D-830-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564065  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PR1-075U-075D-830-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

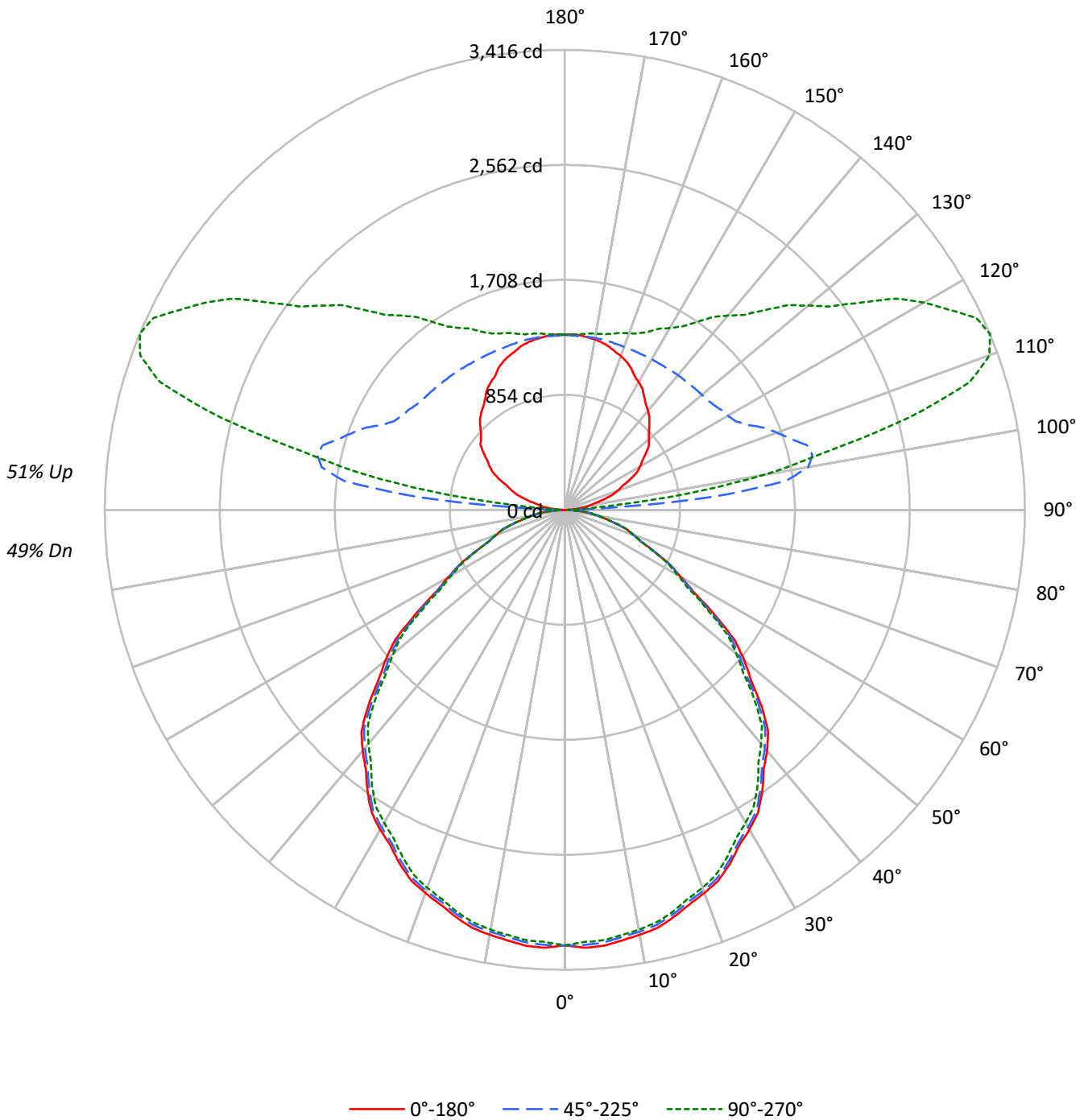
Lumens per Lamp: N/A  
Luminaire Lumens: 16568.3 lumens  
Efficiency: N/A  
Efficacy: 124.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 133.4  
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	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	98	94	90	86	90	86	83	80	73	71	68	60	59	57	49	48	47	42
2	89	82	76	71	82	76	71	66	64	60	57	53	51	48	44	42	40	35
3	82	72	65	59	75	67	61	56	57	52	48	47	44	41	39	36	34	30
4	75	64	56	50	69	59	53	47	51	45	41	42	39	36	35	32	30	26
5	69	57	49	43	63	53	46	41	45	40	36	38	34	31	31	28	26	23
6	63	51	43	38	58	48	41	36	41	35	31	35	30	27	29	25	23	20
7	59	46	39	33	54	43	36	31	37	32	28	31	27	24	26	23	21	18
8	54	42	35	29	50	39	32	28	34	28	25	29	25	21	24	21	18	16
9	51	39	31	26	47	36	29	25	31	26	22	26	22	19	22	19	17	14
10	47	35	28	23	44	33	27	22	29	23	20	24	20	17	21	17	15	13

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	9950	9950	9950
5°	10039	9962	9910
10°	10007	9938	9885
15°	9963	9901	9848
20°	9913	9849	9776
25°	9843	9777	9664
30°	9737	9668	9529
35°	9594	9510	9374
40°	9375	9274	9106
45°	8993	8835	8653
50°	8319	8119	7959
55°	7261	7097	6947
60°	6119	6067	5947
65°	5293	5313	5272
70°	4861	4886	4886
75°	4669	4669	4702
80°	4392	4442	4392
85°	3539	3934	3934



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	305.9	1.8
10°-20°	875.3	5.3
20°-30°	1320.2	8.0
30°-40°	1573.1	9.5
40°-50°	1550.9	9.4
50°-60°	1185.3	7.2
60°-70°	733.5	4.4
70°-80°	416.6	2.5
80°-90°	130.0	0.8
90°-100°	613.7	3.7
100°-110°	1688.6	10.2
110°-120°	1742.9	10.5
120°-130°	1396.4	8.4
130°-140°	1096.8	6.6
140°-150°	840.5	5.1
150°-160°	604.3	3.6
160°-170°	369.5	2.2
170°-180°	124.6	0.8
0°-30°	2501.5	15.1
0°-40°	4074.6	24.6
0°-60°	6810.8	41.1
0°-90°	8090.9	48.8
90°-120°	4045.3	24.4
90°-150°	7379.0	44.5
90°-180°	8477.0	51.2
0°-180°	16568.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3235	3235	3235	3235	3235	
5°	3252	3216	3227	3216	3210	309
15°	3129	3097	3110	3098	3093	883
25°	2901	2865	2881	2851	2848	1335
35°	2555	2525	2533	2500	2497	1595
45°	2068	2040	2031	1995	1990	1584
55°	1354	1332	1324	1301	1296	1213
65°	727	722	730	724	724	737
75°	393	393	393	396	396	415
85°	100	106	112	112	112	117
90°	3	11	19	25	25	10
95°	91	335	1085	464	296	97
105°	302	464	1861	2834	2644	318
115°	534	651	1492	2972	3372	527
125°	736	839	1354	2290	2683	657
135°	889	986	1315	1852	2096	686
145°	1027	1098	1296	1578	1700	644
155°	1163	1201	1288	1418	1459	534
165°	1257	1273	1293	1346	1354	354
175°	1301	1304	1296	1312	1310	124
180°	1301	1301	1301	1301	1301	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3235.2	3235.2	3235.2	3235.2	3235.2
2.5°	3255.2	3226.9	3235.2	3228.1	3212.9
5°	3251.9	3216.5	3226.8	3215.5	3210.1
7.5°	3226.8	3191.9	3202.3	3191.1	3187.8
10°	3204.5	3171.8	3182.2	3171.0	3165.5
12.5°	3180.0	3145.1	3157.7	3144.2	3138.8
15°	3129.3	3096.6	3109.8	3098.5	3093.1
17.5°	3073.6	3038.7	3051.8	3038.8	3031.8
20°	3029.0	2996.3	3009.5	2989.9	2987.2
22.5°	2979.9	2947.2	2960.4	2934.2	2933.7
25°	2900.8	2865.4	2881.3	2850.6	2847.8
27.5°	2806.6	2773.9	2787.1	2755.8	2752.5
30°	2742.0	2709.3	2722.4	2688.9	2683.4
32.5°	2668.4	2637.9	2648.9	2615.4	2612.1
35°	2555.3	2525.3	2533.0	2499.5	2496.7
37.5°	2426.5	2399.3	2403.7	2366.8	2364.1
40°	2335.1	2307.9	2310.0	2271.0	2268.2
42.5°	2234.8	2207.6	2205.3	2166.2	2163.5
45°	2067.6	2040.4	2031.4	1995.0	1989.6
47.5°	1877.0	1849.8	1833.0	1803.4	1799.5
50°	1738.8	1711.6	1697.0	1671.7	1663.6
52.5°	1589.4	1562.2	1549.9	1526.8	1518.7
55°	1354.3	1332.5	1323.6	1301.2	1295.7
57.5°	1130.8	1116.1	1113.5	1091.7	1089.5
60°	994.8	986.6	986.4	966.9	966.9
62.5°	878.9	872.9	877.2	864.3	862.2
65°	727.3	721.8	730.1	724.5	724.5
67.5°	607.5	607.5	612.5	610.3	610.3
70°	540.6	540.6	543.4	543.4	543.4
72.5°	480.4	478.2	485.4	485.4	483.2
75°	392.9	392.9	392.9	395.7	395.7
77.5°	306.0	306.5	308.7	308.1	306.0
80°	248.0	250.7	250.8	248.0	248.0
82.5°	190.0	192.8	192.8	192.2	190.0
85°	100.3	105.8	111.5	111.5	111.5
87.5°	29.5	39.9	48.5	49.5	47.3
90°	2.8	10.9	19.4	24.9	24.9
92.5°	38.2	163.3	283.0	108.6	89.2
95°	91.4	335.0	1085.3	464.1	296.3
97.5°	149.0	371.5	1656.2	1276.1	900.4
100°	191.0	394.1	1835.7	1852.8	1511.7
102.5°	230.9	421.0	1882.2	2298.7	1985.7
105°	301.8	464.2	1860.6	2833.6	2644.1
107.5°	369.3	517.7	1754.8	3095.6	3151.9
110°	418.1	553.4	1675.1	3160.8	3355.7

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	462.4	593.4	1595.3	3118.8	3415.5
115°	534.4	650.8	1492.3	2971.6	3372.3
117.5°	603.0	710.2	1427.0	2765.2	3218.4
120°	645.1	748.0	1398.2	2610.5	3078.8
122.5°	682.8	785.6	1378.3	2474.8	2919.3
125°	736.5	839.4	1353.9	2290.3	2682.9
127.5°	787.4	885.4	1337.8	2136.4	2480.8
130°	814.0	914.2	1329.0	2044.9	2358.9
132.5°	845.0	945.2	1322.3	1964.5	2248.2
135°	888.8	986.2	1315.1	1852.3	2095.9
137.5°	929.7	1020.2	1309.0	1761.6	1962.5
140°	960.7	1044.7	1306.8	1701.3	1882.7
142.5°	987.3	1064.7	1302.4	1647.6	1803.0
145°	1027.2	1097.6	1295.8	1578.2	1700.0
147.5°	1069.8	1130.5	1292.4	1516.7	1614.2
150°	1096.4	1150.6	1290.2	1483.0	1558.8
152.5°	1120.8	1170.6	1288.0	1453.9	1516.7
155°	1162.9	1200.8	1287.5	1418.5	1459.1
157.5°	1193.3	1224.2	1287.5	1389.4	1417.6
160°	1215.5	1239.8	1287.5	1373.8	1395.4
162.5°	1233.2	1253.2	1289.7	1360.4	1377.7
165°	1257.0	1273.2	1293.0	1345.8	1353.9
167.5°	1273.6	1286.1	1295.8	1333.5	1335.6
170°	1284.7	1292.8	1295.8	1329.0	1329.0
172.5°	1293.5	1297.3	1295.8	1322.3	1320.1
175°	1301.3	1304.0	1295.8	1312.3	1309.6
177.5°	1303.5	1303.5	1294.7	1307.8	1303.5
180°	1301.3	1301.3	1301.3	1301.3	1301.3

(END OF REPORT)