

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: P562725

Luminaire Tested: **SQ4-PC3-075U-075D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562725  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PC3-075U-075D-835-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

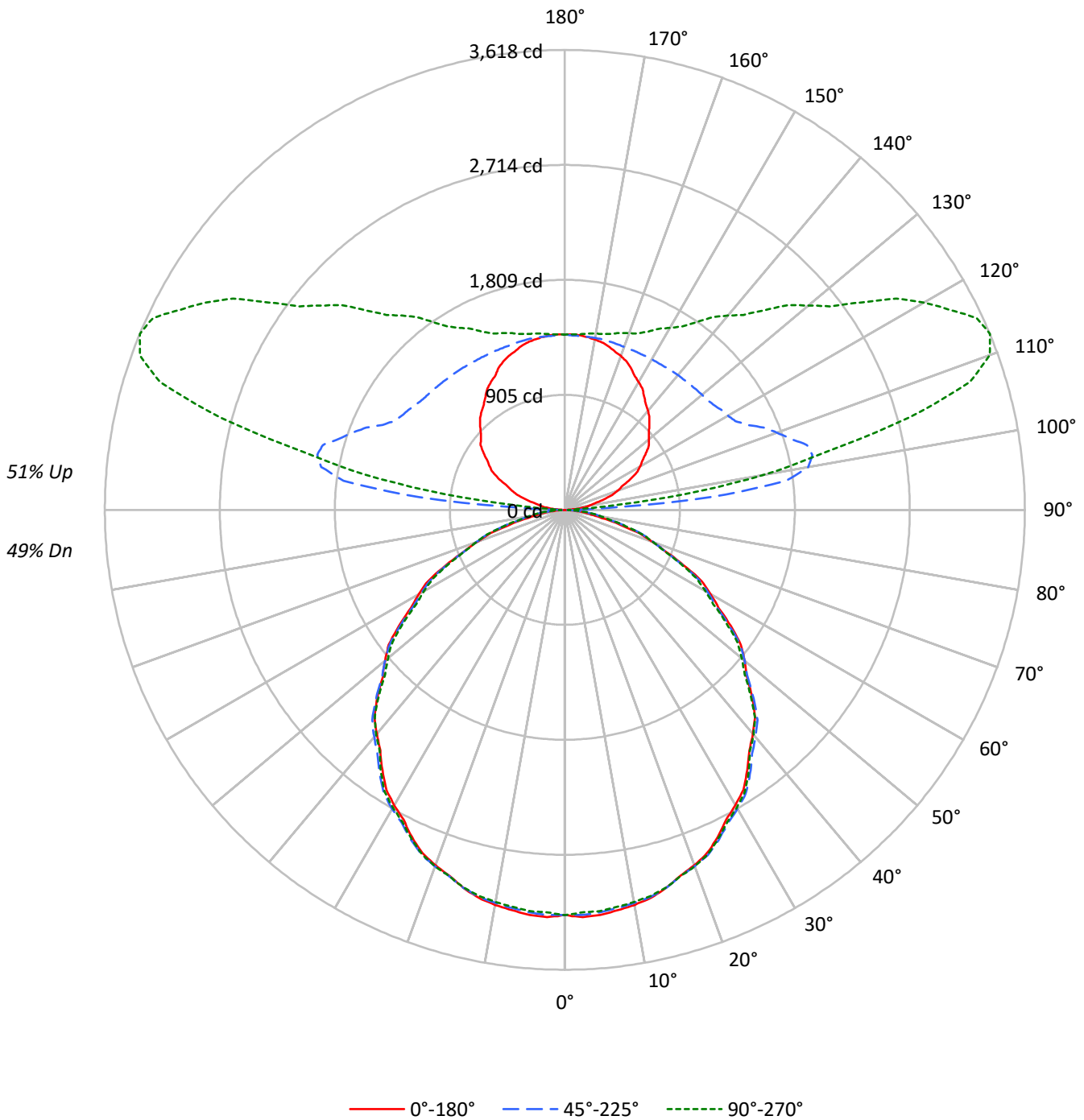
Lumens per Lamp: N/A  
Luminaire Lumens: 17686.5 lumens  
Efficiency: N/A  
Efficacy: 132.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: General Diffuse

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	99	99	99	99	83	83	83	69	69	69	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	75	70	82	75	70	66	64	60	56	53	50	48	43	41	40	35
3	81	72	64	58	74	66	60	55	56	51	47	47	43	40	38	36	34	29
4	74	63	55	49	68	59	52	46	50	45	40	42	38	35	34	31	29	25
5	68	56	48	42	62	52	45	40	45	39	35	37	33	30	31	28	25	22
6	63	51	42	37	58	47	40	34	40	34	30	34	29	26	28	25	22	19
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	25	22	20	17
8	54	41	34	28	49	39	32	27	33	28	24	28	24	21	23	20	18	15
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	21	18	16	14
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14	12

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

	0°	45°	90°
0°	9806	9806	9806
5°	9879	9816	9779
10°	9855	9809	9782
15°	9804	9804	9794
20°	9739	9768	9768
25°	9647	9717	9687
30°	9530	9645	9603
35°	9388	9532	9466
40°	9233	9363	9268
45°	9065	9129	8988
50°	8828	8828	8687
55°	8548	8437	8310
60°	8135	7971	7844
65°	7519	7369	7304
70°	6583	6636	6610
75°	5297	5858	5894
80°	3765	4968	5019
85°	2290	4167	4167



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	301.7	1.7
10°-20°	865.9	4.9
20°-30°	1311.3	7.4
30°-40°	1572.1	8.9
40°-50°	1603.0	9.1
50°-60°	1399.3	7.9
60°-70°	1001.8	5.7
70°-80°	516.0	2.9
80°-90°	134.0	0.8
90°-100°	650.2	3.7
100°-110°	1789.0	10.1
110°-120°	1846.5	10.4
120°-130°	1479.4	8.4
130°-140°	1162.0	6.6
140°-150°	890.5	5.0
150°-160°	640.2	3.6
160°-170°	391.5	2.2
170°-180°	132.0	0.7
0°-30°	2479.0	14.0
0°-40°	4051.1	22.9
0°-60°	7053.4	39.9
0°-90°	8705.2	49.2
90°-120°	4285.7	24.2
90°-150°	7817.7	44.2
90°-180°	8981.0	50.8
0°-180°	17686.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3188	3188	3188	3188	3188	
5°	3200	3168	3180	3171	3168	304
15°	3079	3053	3079	3079	3076	868
25°	2843	2823	2864	2855	2855	1308
35°	2500	2495	2539	2521	2521	1564
45°	2084	2078	2099	2072	2066	1604
55°	1594	1574	1574	1550	1550	1421
65°	1033	1010	1013	1004	1004	1022
75°	446	466	493	496	496	482
85°	65	100	118	121	118	88
90°	3	12	20	26	26	9
95°	97	355	1150	492	314	102
105°	320	492	1971	3002	2801	337
115°	566	690	1581	3148	3573	559
125°	780	889	1434	2426	2842	696
135°	942	1045	1393	1962	2220	727
145°	1088	1163	1373	1672	1801	682
155°	1232	1272	1364	1503	1546	566
165°	1332	1349	1370	1426	1434	375
175°	1379	1382	1373	1390	1387	131
180°	1379	1379	1379	1379	1379	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3188.4	3188.4	3188.4	3188.4	3188.4
2.5°	3207.3	3179.5	3188.4	3181.0	3169.5
5°	3200.2	3168.4	3179.5	3170.6	3167.7
7.5°	3177.1	3145.4	3160.0	3154.1	3151.2
10°	3155.9	3124.1	3141.1	3135.2	3132.3
12.5°	3127.5	3098.1	3117.5	3111.6	3111.0
15°	3079.1	3053.2	3079.1	3079.1	3076.2
17.5°	3018.3	2994.6	3022.4	3024.2	3022.4
20°	2975.8	2949.8	2984.7	2981.8	2984.7
22.5°	2923.8	2902.5	2939.8	2932.2	2935.1
25°	2843.0	2822.7	2863.6	2854.8	2854.8
27.5°	2747.3	2732.9	2777.4	2768.0	2768.0
30°	2683.5	2669.1	2716.0	2704.2	2704.2
32.5°	2612.7	2602.9	2647.5	2633.4	2633.4
35°	2500.5	2494.7	2538.9	2521.2	2521.2
37.5°	2384.8	2379.6	2419.6	2398.2	2391.3
40°	2299.8	2296.9	2332.2	2308.6	2308.6
42.5°	2214.7	2211.8	2242.5	2214.1	2214.1
45°	2084.2	2078.5	2099.0	2072.3	2066.5
47.5°	1941.9	1936.2	1949.0	1920.0	1917.1
50°	1845.1	1839.3	1845.1	1818.5	1815.6
52.5°	1745.9	1735.5	1736.5	1709.9	1709.3
55°	1594.2	1574.0	1573.5	1549.9	1549.9
57.5°	1433.6	1407.0	1409.4	1389.2	1386.3
60°	1322.6	1293.7	1296.0	1278.2	1275.3
62.5°	1213.9	1180.5	1187.4	1167.3	1166.7
65°	1033.3	1010.2	1012.6	1003.7	1003.7
67.5°	859.7	838.3	853.8	846.7	846.1
70°	732.1	717.7	738.0	738.0	735.1
72.5°	614.1	613.5	638.9	638.9	640.6
75°	445.8	466.0	493.0	496.0	496.0
77.5°	297.6	333.4	363.1	364.3	363.7
80°	212.6	253.0	280.5	286.3	283.4
82.5°	144.1	186.8	209.6	215.4	212.6
85°	64.9	99.6	118.1	121.0	118.1
87.5°	19.5	42.0	51.3	52.4	47.8
90°	2.9	11.5	20.5	26.4	26.4
92.5°	40.5	173.0	299.8	115.1	94.5
95°	96.8	354.9	1149.9	491.7	313.9
97.5°	157.8	393.6	1754.7	1352.0	953.9
100°	202.4	417.5	1944.8	1963.0	1601.6
102.5°	244.6	446.0	1994.1	2435.3	2103.8
105°	319.7	491.8	1971.2	3002.1	2801.3
107.5°	391.3	548.5	1859.1	3279.6	3339.3
110°	442.9	586.3	1774.6	3348.7	3555.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	489.9	628.7	1690.2	3304.2	3618.5
115°	566.1	689.5	1581.0	3148.3	3572.8
117.5°	638.9	752.4	1511.8	2929.5	3409.7
120°	683.5	792.4	1481.3	2765.6	3261.8
122.5°	723.4	832.3	1460.2	2621.9	3092.9
125°	780.3	889.2	1434.4	2426.5	2842.4
127.5°	834.2	938.1	1417.4	2263.4	2628.2
130°	862.4	968.5	1408.0	2166.5	2499.2
132.5°	895.2	1001.4	1400.9	2081.3	2381.8
135°	941.6	1044.8	1393.3	1962.4	2220.5
137.5°	985.0	1080.8	1386.9	1866.3	2079.1
140°	1017.9	1106.8	1384.5	1802.5	1994.6
142.5°	1046.0	1128.0	1379.8	1745.5	1910.2
145°	1088.3	1162.8	1372.8	1672.0	1801.0
147.5°	1133.4	1197.7	1369.3	1606.9	1710.1
150°	1161.6	1218.9	1366.9	1571.1	1651.4
152.5°	1187.4	1240.2	1364.6	1540.3	1606.9
155°	1232.0	1272.1	1364.0	1502.8	1545.8
157.5°	1264.3	1296.9	1364.0	1472.0	1501.8
160°	1287.7	1313.5	1364.0	1455.4	1478.4
162.5°	1306.5	1327.7	1366.3	1441.3	1459.6
165°	1331.7	1348.9	1369.8	1425.8	1434.4
167.5°	1349.3	1362.5	1372.8	1412.7	1415.0
170°	1361.0	1369.7	1372.8	1408.0	1408.0
172.5°	1370.4	1374.5	1372.8	1400.9	1398.6
175°	1378.6	1381.5	1372.8	1390.3	1387.4
177.5°	1381.0	1381.0	1371.6	1385.6	1381.0
180°	1378.6	1378.6	1378.6	1378.6	1378.6

(END OF REPORT)