

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: P563030

Luminaire Tested: **SQ4-PC3-125U-075D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563030  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PC3-125U-075D-940-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

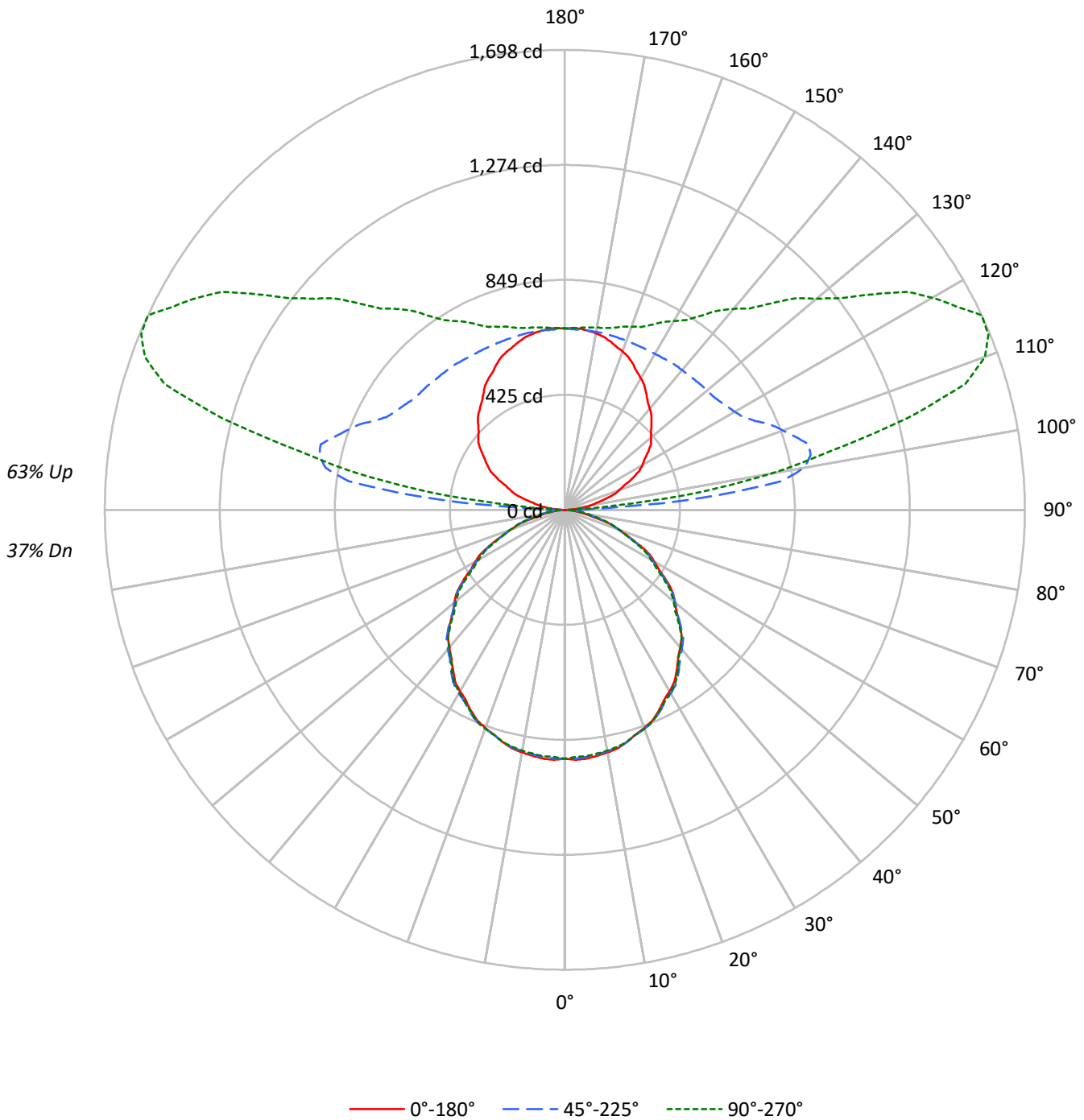
Lumens per Lamp: N/A  
Luminaire Lumens: 6830.9 lumens  
Efficiency: N/A  
Efficacy: 122.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 55.7  
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	50	30	10	0	
RCR																						
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37				37
1	95	91	87	83	86	82	79	76	67	64	62	52	51	49	39	38	37				31	
2	86	79	73	68	78	72	67	62	58	55	52	46	43	41	34	33	31				26	
3	79	69	62	57	71	63	57	52	51	47	43	40	37	35	30	28	27				22	
4	72	61	54	48	65	56	49	44	46	41	37	36	33	30	27	25	23				19	
5	66	55	47	41	59	50	43	38	41	36	32	32	29	26	24	22	20				16	
6	61	49	41	35	55	45	38	33	37	31	27	29	25	22	22	19	17				14	
7	56	44	36	31	51	40	33	28	33	28	24	26	23	20	20	17	15				13	
8	52	40	32	27	47	36	30	25	30	25	21	24	20	18	18	16	14				11	
9	48	36	29	24	44	33	27	22	27	22	19	22	18	16	17	14	12				10	
10	45	33	26	21	41	30	24	20	25	20	17	20	17	14	16	13	11				9	

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

	0°	45°	90°
0°	8477	8477	8477
5°	8541	8485	8454
10°	8520	8479	8456
15°	8475	8475	8467
20°	8419	8445	8445
25°	8339	8401	8374
30°	8238	8337	8301
35°	8115	8240	8183
40°	7982	8095	8012
45°	7837	7891	7770
50°	7632	7632	7510
55°	7390	7293	7184
60°	7032	6892	6781
65°	6499	6370	6314
70°	5692	5738	5713
75°	4581	5065	5094
80°	3257	4293	4341
85°	1980	3599	3599



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.0	1.3
10°-20°	249.5	3.7
20°-30°	377.9	5.5
30°-40°	453.0	6.6
40°-50°	461.9	6.8
50°-60°	403.2	5.9
60°-70°	288.7	4.2
70°-80°	148.7	2.2
80°-90°	39.2	0.6
90°-100°	313.2	4.6
100°-110°	843.6	12.4
110°-120°	885.4	13.0
120°-130°	718.5	10.5
130°-140°	563.5	8.2
140°-150°	432.6	6.3
150°-160°	311.0	4.6
160°-170°	190.0	2.8
170°-180°	64.1	0.9
0°-30°	714.3	10.5
0°-40°	1167.3	17.1
0°-60°	2032.5	29.8
0°-90°	2509.0	36.7
90°-120°	2042.2	29.9
90°-150°	3756.7	55.0
90°-180°	4322.0	63.3
0°-180°	6830.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	919	919	919	919	919	
5°	922	913	916	914	913	88
15°	887	880	887	887	886	250
25°	819	813	825	823	823	377
35°	720	719	732	726	726	451
45°	601	599	605	597	596	462
55°	459	454	453	447	447	410
65°	298	291	292	289	289	294
75°	128	134	142	143	143	139
85°	19	29	34	35	34	25
90°	2	5	10	11	11	4
95°	48	170	513	262	182	50
105°	156	243	933	1396	1310	164
115°	276	337	777	1501	1698	271
125°	376	432	698	1179	1388	336
135°	453	505	678	951	1077	350
145°	524	564	670	813	873	328
155°	594	616	664	730	753	274
165°	645	652	666	693	696	182
175°	670	670	667	676	675	64
180°	670	670	670	670	670	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	918.8	918.8	918.8	918.8	918.8
2.5°	924.2	916.2	918.8	916.6	913.3
5°	922.2	913.0	916.2	913.6	912.8
7.5°	915.5	906.4	910.6	908.9	908.0
10°	909.4	900.3	905.1	903.4	902.6
12.5°	901.2	892.8	898.3	896.6	896.5
15°	887.3	879.8	887.3	887.3	886.4
17.5°	869.8	862.9	870.9	871.4	870.9
20°	857.5	850.0	860.1	859.2	860.1
22.5°	842.5	836.4	847.1	844.9	845.8
25°	819.2	813.4	825.2	822.6	822.6
27.5°	791.7	787.5	800.3	797.6	797.6
30°	773.3	769.1	782.6	779.2	779.2
32.5°	752.9	750.0	762.9	758.8	758.8
35°	720.5	718.9	731.6	726.5	726.5
37.5°	687.2	685.7	697.2	691.1	689.1
40°	662.7	661.9	672.1	665.2	665.2
42.5°	638.2	637.4	646.2	638.0	638.0
45°	600.6	598.9	604.8	597.2	595.5
47.5°	559.6	557.9	561.6	553.3	552.4
50°	531.7	530.0	531.7	524.0	523.2
52.5°	503.1	500.1	500.4	492.7	492.6
55°	459.4	453.6	453.4	446.6	446.6
57.5°	413.1	405.4	406.1	400.3	399.5
60°	381.1	372.8	373.5	368.3	367.5
62.5°	349.8	340.2	342.2	336.4	336.2
65°	297.7	291.1	291.8	289.2	289.2
67.5°	247.7	241.6	246.0	244.0	243.8
70°	211.0	206.8	212.7	212.7	211.8
72.5°	176.9	176.8	184.1	184.1	184.6
75°	128.5	134.3	142.1	142.9	142.9
77.5°	85.8	96.1	104.6	105.0	104.8
80°	61.3	72.9	80.8	82.5	81.7
82.5°	41.5	53.8	60.4	62.1	61.3
85°	18.7	28.7	34.0	34.9	34.0
87.5°	5.8	12.4	15.7	15.8	14.5
90°	1.7	5.0	10.2	11.1	11.1
92.5°	20.8	73.5	145.3	70.0	48.6
95°	47.8	170.3	513.4	262.5	181.7
97.5°	76.2	195.0	805.2	672.7	507.3
100°	98.1	204.8	898.0	939.6	779.5
102.5°	119.2	218.6	928.7	1139.5	1008.0
105°	156.1	242.8	933.0	1395.8	1309.9
107.5°	190.9	268.2	893.3	1527.6	1549.8
110°	214.1	287.4	857.1	1568.5	1649.4

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	238.6	306.7	822.3	1559.4	1692.4
115°	275.5	337.2	776.9	1501.2	1698.0
117.5°	309.1	366.9	741.8	1408.2	1627.4
120°	330.9	386.8	724.1	1341.5	1566.6
122.5°	350.0	405.2	711.1	1273.3	1497.7
125°	376.1	432.0	697.6	1179.1	1387.6
127.5°	401.2	456.2	689.1	1096.0	1282.1
130°	416.2	471.2	685.7	1048.4	1211.9
132.5°	431.2	485.6	682.3	1006.5	1156.6
135°	452.9	505.4	678.0	951.2	1077.1
137.5°	473.5	523.9	675.8	904.3	1007.7
140°	487.8	536.2	673.7	875.4	968.8
142.5°	502.8	547.9	672.4	848.5	927.2
145°	523.6	564.5	669.5	813.3	873.3
147.5°	546.2	581.7	666.6	783.6	830.8
150°	561.2	592.0	665.2	765.0	804.2
152.5°	574.8	601.7	664.5	749.8	781.7
155°	594.4	616.1	663.5	729.7	753.0
157.5°	611.6	628.5	663.7	715.5	731.2
160°	622.6	636.7	664.4	707.3	718.9
162.5°	632.1	643.6	665.0	700.4	708.7
165°	644.7	652.2	666.1	692.6	695.9
167.5°	655.0	659.3	666.9	686.6	687.9
170°	661.8	663.5	666.9	683.1	683.1
172.5°	665.9	666.2	667.6	679.7	679.7
175°	670.3	669.5	666.9	676.3	674.6
177.5°	672.2	670.9	667.4	672.9	671.5
180°	669.5	669.5	669.5	669.5	669.5

(END OF REPORT)