

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: P562938

Luminaire Tested: **SQ4-PC3-100U-100D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562938  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PC3-100U-100D-830-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

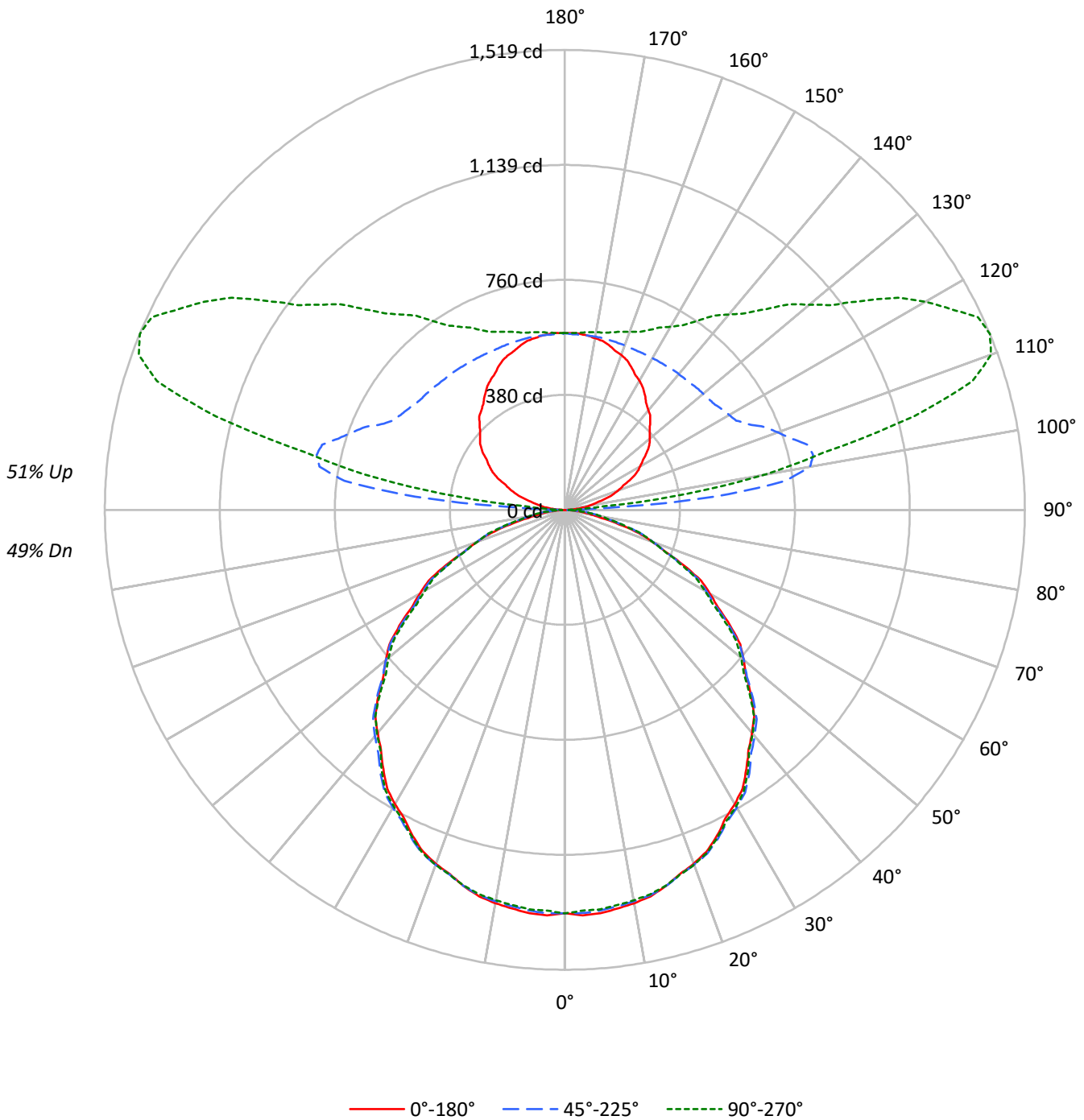
Lumens per Lamp: N/A  
Luminaire Lumens: 7429.9 lumens  
Efficiency: N/A  
Efficacy: 128.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 57.9  
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				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																					
0	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49	49	49	49
1	98	93	89	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41	41	41	41
2	89	81	75	70	82	75	70	66	64	60	56	53	50	48	43	41	39	35	35	35	35
3	81	72	64	58	74	66	60	55	56	51	47	47	43	40	38	36	33	29	29	29	29
4	74	63	55	49	68	59	52	46	50	45	40	42	38	34	34	31	29	25	25	25	25
5	68	56	48	42	62	52	45	40	45	39	35	37	33	30	31	28	25	22	22	22	22
6	63	51	42	37	57	47	40	34	40	34	30	34	29	26	28	24	22	19	19	19	19
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	25	22	20	17	17	17	17
8	54	41	34	28	49	38	32	27	33	28	24	28	24	20	23	20	17	15	15	15	15
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	21	18	16	14	14	14	14
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14	12	12	12	12

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

	0°	45°	90°
0°	12298	12298	12298
5°	12390	12310	12265
10°	12360	12303	12267
15°	12295	12295	12283
20°	12214	12250	12250
25°	12099	12186	12149
30°	11952	12096	12044
35°	11773	11955	11871
40°	11579	11743	11624
45°	11369	11449	11272
50°	11072	11072	10894
55°	10719	10581	10422
60°	10202	9998	9839
65°	9431	9241	9160
70°	8257	8322	8290
75°	6645	7347	7390
80°	4723	6227	6296
85°	2879	5229	5229



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.1	1.7
10°-20°	362.0	4.9
20°-30°	548.2	7.4
30°-40°	657.2	8.8
40°-50°	670.1	9.0
50°-60°	585.0	7.9
60°-70°	418.8	5.6
70°-80°	215.7	2.9
80°-90°	55.8	0.8
90°-100°	273.2	3.7
100°-110°	754.3	10.2
110°-120°	777.9	10.5
120°-130°	625.1	8.4
130°-140°	491.3	6.6
140°-150°	376.8	5.1
150°-160°	270.8	3.6
160°-170°	165.6	2.2
170°-180°	55.8	0.8
0°-30°	1036.3	13.9
0°-40°	1693.6	22.8
0°-60°	2948.7	39.7
0°-90°	3638.9	49.0
90°-120°	1805.5	24.3
90°-150°	3298.7	44.4
90°-180°	3791.0	51.0
0°-180°	7429.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1333	1333	1333	1333	1333	
5°	1338	1325	1329	1326	1324	127
15°	1287	1276	1287	1287	1286	363
25°	1188	1180	1197	1193	1193	547
35°	1045	1043	1061	1054	1054	654
45°	871	869	878	866	864	671
55°	666	658	658	648	648	594
65°	432	422	423	420	420	427
75°	186	195	206	207	207	201
85°	27	42	49	51	49	37
90°	2	4	8	8	9	4
95°	40	148	496	204	133	43
105°	134	207	830	1267	1193	143
115°	241	291	668	1323	1505	237
125°	330	376	606	1025	1203	294
135°	398	441	589	830	936	308
145°	461	493	582	707	761	289
155°	520	537	577	634	654	240
165°	563	570	580	602	607	159
175°	584	584	581	589	587	55
180°	584	584	584	584	584	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1332.9	1332.9	1332.9	1332.9	1332.9
2.5°	1340.8	1329.2	1332.9	1329.8	1325.0
5°	1337.8	1324.6	1329.2	1325.5	1324.3
7.5°	1328.2	1314.9	1321.0	1318.6	1317.3
10°	1319.3	1306.0	1313.2	1310.7	1309.4
12.5°	1307.5	1295.2	1303.3	1300.8	1300.6
15°	1287.2	1276.4	1287.2	1287.2	1286.0
17.5°	1261.8	1251.9	1263.5	1264.3	1263.5
20°	1244.0	1233.2	1247.7	1246.5	1247.7
22.5°	1222.3	1213.4	1229.0	1225.8	1227.0
25°	1188.5	1180.1	1197.1	1193.4	1193.4
27.5°	1148.5	1142.5	1161.1	1157.2	1157.2
30°	1121.9	1115.8	1135.4	1130.5	1130.5
32.5°	1092.2	1088.1	1106.8	1100.9	1100.9
35°	1045.3	1042.9	1061.4	1054.0	1054.0
37.5°	997.0	994.8	1011.5	1002.6	999.7
40°	961.4	960.2	975.0	965.1	965.1
42.5°	925.9	924.7	937.5	925.6	925.6
45°	871.3	868.9	877.5	866.3	863.9
47.5°	811.8	809.4	814.8	802.7	801.5
50°	771.4	768.9	771.4	760.2	759.0
52.5°	729.9	725.5	725.9	714.8	714.6
55°	666.4	658.0	657.8	647.9	647.9
57.5°	599.3	588.2	589.2	580.8	579.6
60°	552.9	540.8	541.8	534.4	533.2
62.5°	507.5	493.5	496.4	488.0	487.7
65°	432.0	422.3	423.3	419.6	419.6
67.5°	359.4	350.5	356.9	354.0	353.7
70°	306.1	300.0	308.5	308.5	307.3
72.5°	256.7	256.5	267.1	267.1	267.8
75°	186.4	194.8	206.1	207.3	207.3
77.5°	124.4	139.4	151.8	152.3	152.0
80°	88.9	105.8	117.2	119.7	118.5
82.5°	60.2	78.1	87.6	90.1	88.9
85°	27.2	41.6	49.4	50.6	49.4
87.5°	8.3	17.3	21.2	21.4	19.6
90°	1.9	3.7	7.5	8.4	9.3
92.5°	16.8	69.7	124.7	45.5	35.5
95°	40.1	147.8	495.7	203.8	132.6
97.5°	66.5	165.6	734.3	565.3	409.4
100°	85.9	176.2	822.4	828.2	673.1
102.5°	104.6	188.3	839.6	1023.3	876.2
105°	134.4	207.4	829.9	1267.0	1193.0
107.5°	166.2	231.2	783.6	1384.5	1411.5
110°	188.6	247.0	747.8	1409.7	1497.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	208.7	265.0	714.1	1389.8	1519.0
115°	240.8	291.1	668.4	1323.2	1504.8
117.5°	268.9	318.9	638.3	1229.5	1436.1
120°	287.5	336.8	626.4	1166.0	1374.1
122.5°	305.4	352.5	616.7	1106.8	1303.9
125°	330.5	376.1	605.9	1025.3	1203.3
127.5°	351.8	397.4	599.5	956.4	1110.0
130°	365.9	411.6	596.5	914.3	1053.9
132.5°	379.4	422.8	593.5	878.9	1005.4
135°	397.7	440.6	589.1	830.4	936.3
137.5°	418.2	457.3	586.8	789.8	880.1
140°	429.4	467.8	585.3	762.6	842.0
142.5°	442.1	477.5	583.8	738.5	808.4
145°	461.2	493.1	581.6	707.0	760.8
147.5°	479.5	507.4	579.5	680.4	722.2
150°	492.9	515.7	578.8	664.5	698.3
152.5°	503.4	524.7	578.0	650.9	678.9
155°	520.0	537.3	576.9	634.3	654.4
157.5°	535.3	548.6	577.1	622.2	635.9
160°	544.2	556.1	577.9	615.4	625.5
162.5°	551.7	562.1	578.6	609.4	617.2
165°	562.9	570.2	579.7	602.2	606.8
167.5°	571.5	575.9	580.7	597.9	599.3
170°	576.0	579.6	580.7	595.6	595.6
172.5°	579.7	581.9	580.7	592.6	591.9
175°	583.5	584.4	580.7	589.0	587.2
177.5°	584.9	584.2	580.5	585.7	584.2
180°	583.5	583.5	583.5	583.5	583.5

(END OF REPORT)