

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: P562891

Luminaire Tested: **SQ4-PC3-100U-050D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562891  
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-050D-830-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

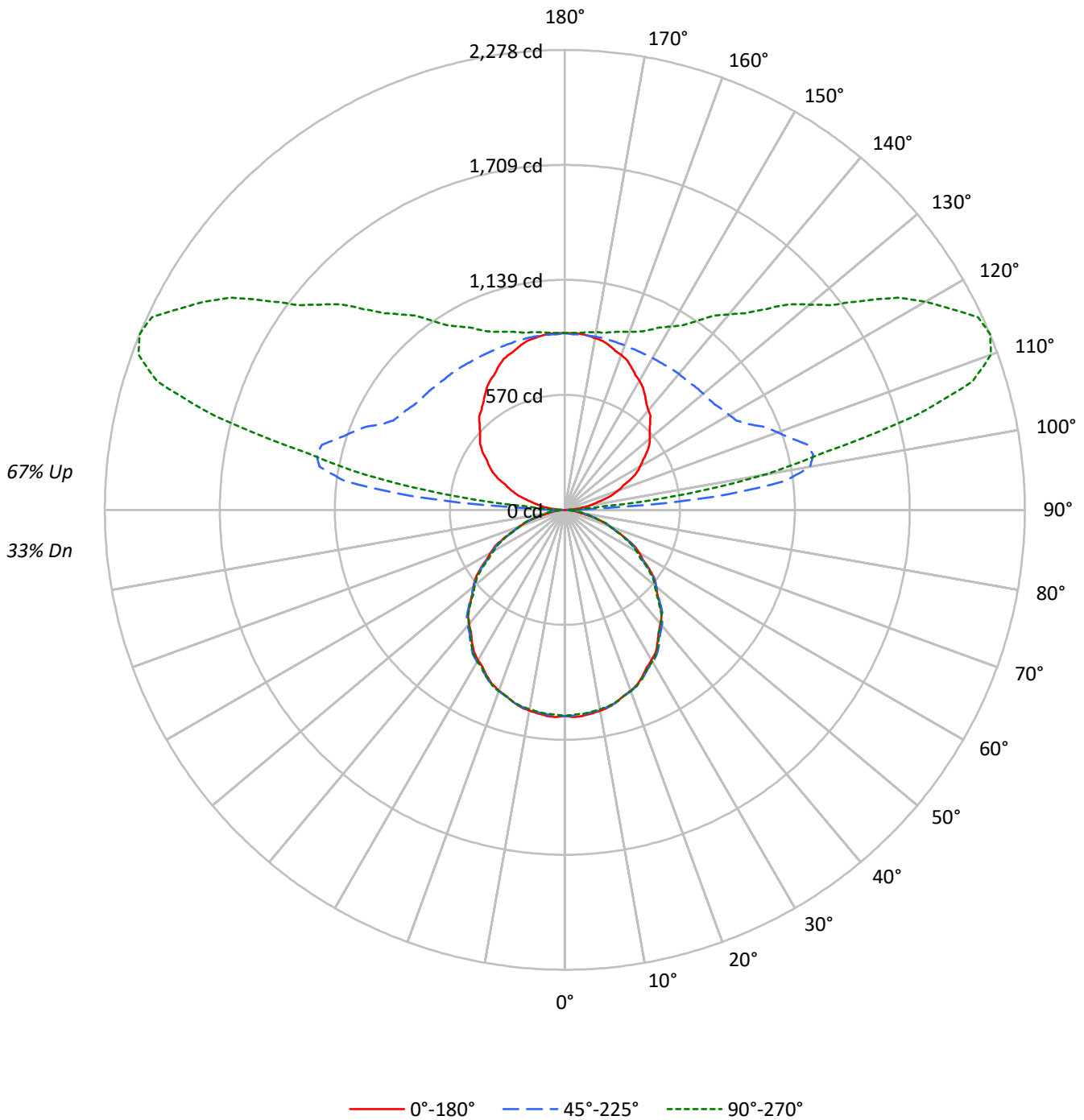
Lumens per Lamp: N/A  
Luminaire Lumens: 8474.6 lumens  
Efficiency: N/A  
Efficacy: 131.8 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 64.3  
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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	33				
1	94	90	86	83	85	81	78	75	65	63	61	50	48	47	36	35	34	28				
2	86	78	72	67	77	71	66	62	57	53	50	44	41	39	31	30	29	23				
3	78	69	62	56	70	62	56	51	50	46	42	38	36	33	28	26	24	20				
4	71	61	53	47	64	55	48	43	44	39	36	34	31	28	25	23	21	17				
5	65	54	46	40	59	49	42	37	39	34	31	31	27	24	22	20	18	15				
6	60	48	40	35	54	44	37	32	35	30	27	28	24	21	20	18	16	13				
7	55	43	36	30	50	40	33	28	32	27	23	25	21	19	18	16	14	11				
8	51	39	32	27	46	36	29	25	29	24	21	23	19	17	17	14	13	10				
9	48	36	29	24	43	33	26	22	27	22	18	21	17	15	16	13	11	9				
10	44	33	26	21	40	30	24	19	24	20	16	19	16	13	14	12	10	8				

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

	0°	45°	90°
0°	6279	6279	6279
5°	6327	6286	6263
10°	6311	6282	6264
15°	6279	6279	6272
20°	6237	6256	6256
25°	6178	6223	6204
30°	6103	6177	6150
35°	6012	6105	6062
40°	5913	5996	5935
45°	5805	5846	5756
50°	5653	5653	5563
55°	5474	5403	5322
60°	5210	5105	5024
65°	4816	4718	4678
70°	4215	4250	4233
75°	3391	3752	3774
80°	2412	3181	3213
85°	1468	2668	2668



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.6	1.1
10°-20°	277.3	3.3
20°-30°	419.9	5.0
30°-40°	503.4	5.9
40°-50°	513.3	6.1
50°-60°	448.1	5.3
60°-70°	320.8	3.8
70°-80°	165.2	1.9
80°-90°	43.6	0.5
90°-100°	409.9	4.8
100°-110°	1131.5	13.4
110°-120°	1166.9	13.8
120°-130°	937.7	11.1
130°-140°	736.9	8.7
140°-150°	565.2	6.7
150°-160°	406.2	4.8
160°-170°	248.4	2.9
170°-180°	83.8	1.0
0°-30°	793.8	9.4
0°-40°	1297.2	15.3
0°-60°	2258.5	26.7
0°-90°	2788.1	32.9
90°-120°	2708.2	32.0
90°-150°	4948.1	58.4
90°-180°	5686.0	67.1
0°-180°	8474.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1021	1021	1021	1021	1021	
5°	1025	1014	1018	1015	1014	97
15°	986	978	986	986	985	278
25°	910	904	917	914	914	419
35°	801	799	813	807	807	501
45°	667	666	672	664	662	514
55°	510	504	504	496	496	455
65°	331	324	324	321	321	327
75°	143	149	158	159	159	154
85°	21	32	38	39	38	28
90°	3	6	11	13	14	5
95°	60	222	744	306	199	64
105°	202	311	1245	1900	1790	215
115°	361	437	1003	1985	2257	355
125°	496	564	909	1538	1805	441
135°	596	661	884	1246	1404	462
145°	692	740	872	1060	1141	433
155°	780	806	865	952	982	359
165°	844	855	870	903	910	238
175°	875	876	871	884	881	83
180°	875	875	875	875	875	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1020.9	1020.9	1020.9	1020.9	1020.9
2.5°	1027.0	1018.1	1020.9	1018.6	1014.9
5°	1024.7	1014.5	1018.1	1015.2	1014.3
7.5°	1017.3	1007.2	1011.9	1009.9	1009.0
10°	1010.5	1000.4	1005.8	1003.9	1003.0
12.5°	1001.5	992.0	998.2	996.3	996.2
15°	986.0	977.6	986.0	985.9	985.0
17.5°	966.5	958.9	967.8	968.4	967.8
20°	952.9	944.6	955.7	954.8	955.7
22.5°	936.2	929.4	941.3	938.9	939.8
25°	910.3	903.9	916.9	914.1	914.1
27.5°	879.7	875.1	889.3	886.3	886.3
30°	859.3	854.7	869.7	865.9	865.9
32.5°	836.6	833.5	847.8	843.2	843.2
35°	800.7	798.8	813.0	807.3	807.3
37.5°	763.6	762.0	774.8	767.9	765.7
40°	736.4	735.5	746.8	739.2	739.2
42.5°	709.2	708.2	718.1	709.0	709.0
45°	667.4	665.5	672.1	663.6	661.7
47.5°	621.8	620.0	624.1	614.8	613.9
50°	590.8	589.0	590.8	582.3	581.4
52.5°	559.1	555.7	556.0	547.5	547.3
55°	510.5	504.0	503.8	496.3	496.3
57.5°	459.0	450.5	451.3	444.8	443.9
60°	423.5	414.3	415.0	409.3	408.4
62.5°	388.7	378.0	380.2	373.8	373.6
65°	330.9	323.5	324.2	321.4	321.4
67.5°	275.3	268.4	273.4	271.1	270.9
70°	234.4	229.8	236.3	236.3	235.4
72.5°	196.6	196.4	204.6	204.6	205.1
75°	142.7	149.2	157.9	158.8	158.8
77.5°	95.3	106.7	116.3	116.6	116.5
80°	68.1	81.0	89.8	91.7	90.7
82.5°	46.1	59.8	67.1	69.0	68.1
85°	20.8	31.9	37.8	38.7	37.8
87.5°	6.6	13.8	17.4	17.6	16.4
90°	2.8	5.5	11.2	12.6	14.0
92.5°	25.2	104.6	187.1	68.3	53.2
95°	60.2	221.8	743.6	305.6	198.8
97.5°	99.7	248.4	1101.5	848.0	614.2
100°	128.8	264.4	1233.7	1242.4	1009.6
102.5°	156.8	282.5	1259.4	1535.0	1314.3
105°	201.6	311.2	1244.9	1900.5	1789.6
107.5°	249.3	346.7	1175.4	2076.7	2117.2
110°	282.9	370.5	1121.6	2114.6	2246.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	313.1	397.4	1071.2	2084.7	2278.5
115°	361.3	436.6	1002.6	1984.8	2257.3
117.5°	403.3	478.3	957.5	1844.2	2154.2
120°	431.3	505.2	939.6	1749.1	2061.2
122.5°	458.2	528.8	925.0	1660.2	1955.9
125°	495.7	564.2	908.8	1538.0	1805.0
127.5°	527.6	596.1	899.3	1434.6	1664.9
130°	548.9	617.4	894.8	1371.4	1580.9
132.5°	569.1	634.2	890.3	1318.3	1508.1
135°	596.5	660.9	883.6	1245.7	1404.5
137.5°	627.3	685.9	880.2	1184.6	1320.2
140°	644.1	701.6	878.0	1143.9	1263.1
142.5°	663.2	716.3	875.7	1107.8	1212.6
145°	691.7	739.7	872.4	1060.5	1141.2
147.5°	719.2	761.1	869.3	1020.6	1083.3
150°	739.4	773.6	868.2	996.8	1047.4
152.5°	755.0	787.1	867.1	976.4	1018.3
155°	780.0	806.0	865.4	951.5	981.6
157.5°	802.9	822.9	865.7	933.3	953.9
160°	816.4	834.2	866.8	923.1	938.2
162.5°	827.6	843.2	867.9	914.1	925.9
165°	844.4	855.3	869.6	903.3	910.2
167.5°	857.3	863.8	871.0	896.8	899.0
170°	864.0	869.5	871.0	893.4	893.4
172.5°	869.6	872.9	871.0	888.9	887.8
175°	875.2	876.5	871.0	883.5	880.8
177.5°	877.4	876.3	870.7	878.5	876.3
180°	875.2	875.2	875.2	875.2	875.2

(END OF REPORT)