

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: P561621

Luminaire Tested: **SQ4-PC3-100U-050D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561621  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-92765-1D-UNV-STD-W-4 (2700K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

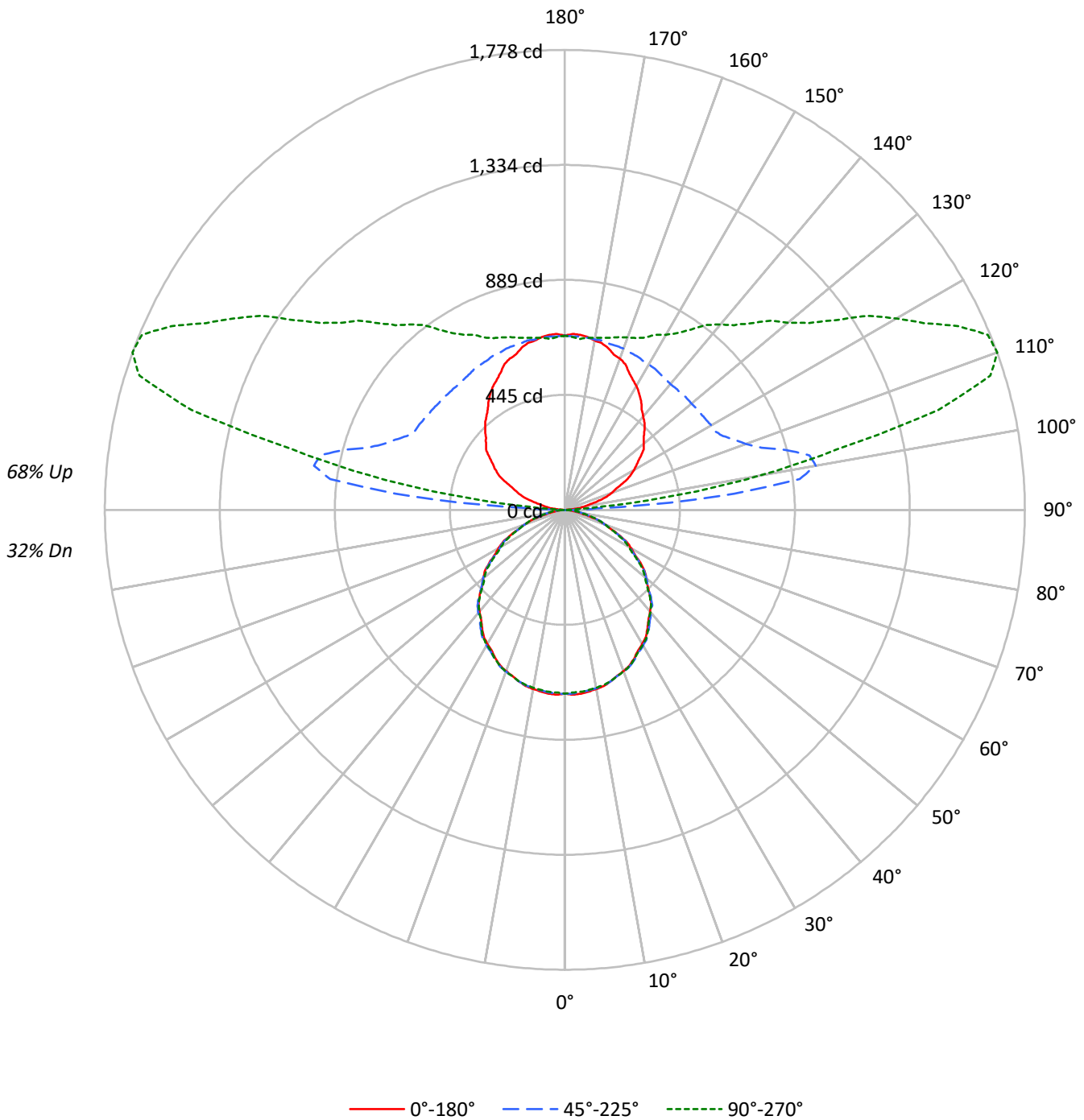
Lumens per Lamp: N/A  
Luminaire Lumens: 6123.3 lumens  
Efficiency: N/A  
Efficacy: 115.8 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 52.9  
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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	103	103	103	103	92	92	92	92	73	73	73	56	56	56	39	39	39	32
1	94	90	86	82	84	81	78	75	64	62	60	49	47	46	35	34	33	27
2	85	78	72	67	76	70	65	61	56	53	50	43	41	39	31	29	28	22
3	78	69	62	56	70	62	56	51	49	45	42	38	35	33	27	25	24	19
4	71	61	53	47	64	55	48	43	44	39	35	34	30	28	24	22	20	16
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	20	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	16	12
7	55	43	36	30	50	39	33	28	32	27	23	25	21	18	18	16	14	11
8	51	39	32	27	46	36	29	24	29	24	20	22	19	16	16	14	12	10
9	48	36	28	23	43	32	26	22	26	21	18	21	17	15	15	13	11	9
10	44	33	26	21	40	30	23	19	24	19	16	19	15	13	14	12	10	8

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

	0°	45°	90°
0°	6558	6558	6558
5°	6608	6565	6540
10°	6592	6561	6542
15°	6557	6557	6551
20°	6513	6533	6533
25°	6452	6499	6479
30°	6374	6451	6423
35°	6279	6375	6331
40°	6175	6263	6199
45°	6063	6106	6011
50°	5905	5905	5810
55°	5717	5643	5558
60°	5442	5331	5246
65°	5030	4929	4886
70°	4402	4437	4421
75°	3543	3918	3943
80°	2518	3321	3358
85°	1535	2784	2784



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.3	1.1
10°-20°	193.0	3.2
20°-30°	292.3	4.8
30°-40°	350.5	5.7
40°-50°	357.4	5.8
50°-60°	312.0	5.1
60°-70°	223.3	3.6
70°-80°	115.0	1.9
80°-90°	29.1	0.5
90°-100°	306.9	5.0
100°-110°	873.2	14.3
110°-120°	836.6	13.7
120°-130°	662.1	10.8
130°-140°	531.5	8.7
140°-150°	416.1	6.8
150°-160°	304.4	5.0
160°-170°	188.6	3.1
170°-180°	64.0	1.0
0°-30°	552.7	9.0
0°-40°	903.2	14.7
0°-60°	1572.5	25.7
0°-90°	1940.0	31.7
90°-120°	2016.7	32.9
90°-150°	3626.3	59.2
90°-180°	4183.0	68.3
0°-180°	6123.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	711	711	711	711	711	
5°	714	706	709	707	706	68
15°	686	681	686	686	686	194
25°	634	629	638	636	636	292
35°	558	556	566	562	562	349
45°	465	463	468	462	461	358
55°	355	351	351	346	346	317
65°	230	225	226	224	224	228
75°	99	104	110	111	111	107
85°	14	22	26	27	26	20
90°	0	0	0	0	0	2
95°	33	132	594	206	127	38
105°	136	206	890	1572	1494	144
115°	252	305	675	1429	1678	248
125°	356	395	644	1069	1278	319
135°	435	472	636	903	1020	336
145°	513	540	642	781	851	321
155°	586	600	657	706	735	271
165°	648	650	664	679	689	182
175°	679	675	672	668	663	64
180°	674	674	674	674	674	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	710.8	710.8	710.8	710.8	710.8
2.5°	715.0	708.9	710.8	709.2	706.6
5°	713.5	706.4	708.8	706.9	706.2
7.5°	708.3	701.2	704.5	703.2	702.5
10°	703.6	696.5	700.3	699.0	698.3
12.5°	697.3	690.7	695.0	693.7	693.6
15°	686.5	680.7	686.5	686.5	685.8
17.5°	672.9	667.6	673.8	674.2	673.8
20°	663.4	657.6	665.4	664.8	665.4
22.5°	651.8	647.1	655.4	653.7	654.3
25°	633.8	629.3	638.4	636.4	636.4
27.5°	612.5	609.3	619.2	617.1	617.1
30°	598.3	595.1	605.5	602.9	602.9
32.5°	582.5	580.3	590.2	587.1	587.1
35°	557.5	556.2	566.0	562.1	562.1
37.5°	531.7	530.5	539.4	534.7	533.1
40°	512.7	512.1	520.0	514.7	514.7
42.5°	493.8	493.1	499.9	493.6	493.6
45°	464.7	463.4	468.0	462.0	460.7
47.5°	432.9	431.7	434.5	428.1	427.4
50°	411.4	410.1	411.4	405.4	404.8
52.5°	389.2	386.9	387.1	381.2	381.1
55°	355.4	350.9	350.8	345.5	345.5
57.5°	319.6	313.7	314.2	309.7	309.1
60°	294.9	288.4	288.9	285.0	284.3
62.5°	270.6	263.2	264.7	260.2	260.1
65°	230.4	225.2	225.8	223.8	223.8
67.5°	191.7	186.9	190.3	188.8	188.6
70°	163.2	160.0	164.5	164.5	163.9
72.5°	136.9	136.8	142.4	142.4	142.8
75°	99.4	103.9	109.9	110.6	110.6
77.5°	66.3	74.3	81.0	81.2	81.1
80°	47.4	56.4	62.5	63.8	63.2
82.5°	32.1	41.6	46.7	48.0	47.4
85°	14.5	22.2	26.3	27.0	26.3
87.5°	4.2	8.8	10.5	10.5	9.5
90°	0.0	0.0	0.0	0.0	0.0
92.5°	10.2	54.3	126.0	36.7	27.7
95°	33.3	132.2	594.1	205.6	126.8
97.5°	61.2	154.8	914.9	654.7	448.6
100°	80.7	168.3	984.6	997.3	768.2
102.5°	102.2	182.8	969.2	1276.6	1076.5
105°	135.7	205.8	889.8	1571.8	1494.2
107.5°	169.8	232.6	797.1	1655.0	1724.1
110°	193.3	252.2	743.9	1623.2	1778.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	215.9	271.7	708.0	1547.9	1769.2
115°	252.2	304.8	674.7	1429.4	1678.5
117.5°	284.2	333.6	655.0	1299.9	1563.8
120°	309.8	351.2	653.0	1225.9	1478.8
122.5°	330.3	371.6	647.9	1161.0	1395.8
125°	355.9	394.7	644.0	1068.7	1277.8
127.5°	383.8	420.2	642.0	1013.6	1185.9
130°	398.2	434.5	638.9	975.2	1125.4
132.5°	413.6	448.9	638.9	945.2	1083.4
135°	435.3	471.6	636.3	902.8	1020.4
137.5°	455.8	491.1	636.1	866.8	968.5
140°	471.2	507.5	635.1	837.0	934.7
142.5°	488.6	518.9	638.1	813.2	900.9
145°	513.4	539.7	641.5	781.3	851.4
147.5°	534.7	560.2	647.1	749.1	809.7
150°	553.1	570.6	649.1	738.5	781.0
152.5°	567.5	586.0	651.2	724.0	763.6
155°	586.4	600.2	656.8	706.1	734.9
157.5°	610.0	618.2	658.1	698.0	718.5
160°	622.3	628.5	663.2	691.8	709.3
162.5°	629.4	636.7	664.2	686.6	700.1
165°	647.9	650.4	664.5	678.8	688.8
167.5°	660.4	658.2	670.4	676.9	680.9
170°	664.5	663.3	668.3	669.7	674.7
172.5°	673.7	669.5	671.4	667.7	671.7
175°	678.6	674.8	672.2	668.2	663.2
177.5°	680.6	674.6	671.4	667.3	668.3
180°	673.5	673.5	673.5	673.5	673.5

(END OF REPORT)