

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: P562542

Luminaire Tested: **SQ4-PC3-025U-075D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562542  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PC3-025U-075D-930-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

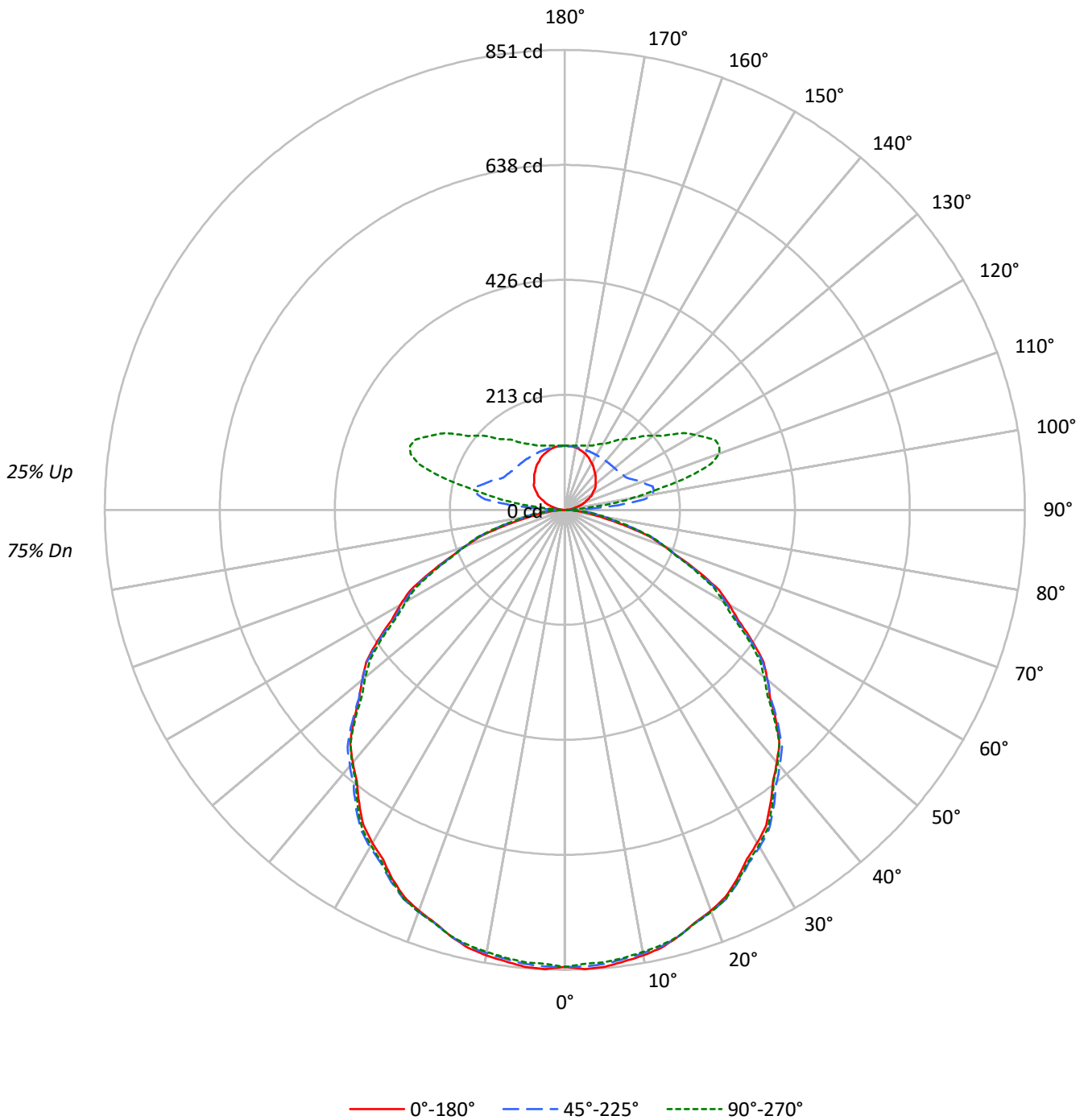
Lumens per Lamp: N/A  
Luminaire Lumens: 3077.4 lumens  
Efficiency: N/A  
Efficacy: 102.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 29.9  
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	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79	75
1	103	99	95	91	98	94	91	88	86	83	80	78	75	73	70	69	67	63
2	94	87	80	75	89	83	77	72	75	70	67	68	65	61	62	59	57	53
3	86	76	68	62	81	73	66	60	66	61	56	60	56	52	55	51	48	45
4	79	67	59	53	75	64	57	51	59	53	48	54	49	45	49	45	41	38
5	72	60	52	45	69	58	50	44	53	46	41	48	43	39	44	40	36	33
6	67	54	46	39	63	52	44	38	48	41	36	44	38	34	40	35	32	29
7	62	49	41	35	59	47	39	34	43	37	32	40	34	30	36	32	28	26
8	57	45	36	31	55	43	35	30	39	33	28	36	31	27	33	29	25	23
9	54	41	33	28	51	39	32	27	36	30	26	33	28	24	31	26	23	21
10	50	38	30	25	48	36	29	24	33	27	23	31	26	22	29	24	21	19

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

	0°	45°	90°
0°	7803	7803	7803
5°	7862	7811	7781
10°	7842	7806	7783
15°	7801	7801	7794
20°	7750	7773	7773
25°	7677	7733	7708
30°	7583	7675	7642
35°	7471	7585	7532
40°	7347	7450	7376
45°	7213	7265	7153
50°	7025	7025	6913
55°	6803	6714	6613
60°	6473	6344	6242
65°	5984	5864	5811
70°	5239	5282	5260
75°	4214	4663	4691
80°	2997	3953	3995
85°	1821	3313	3313



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.0	2.6
10°-20°	229.7	7.5
20°-30°	347.8	11.3
30°-40°	417.0	13.6
40°-50°	425.2	13.8
50°-60°	371.2	12.1
60°-70°	265.7	8.6
70°-80°	136.9	4.4
80°-90°	35.2	1.1
90°-100°	57.8	1.9
100°-110°	151.9	4.9
110°-120°	157.6	5.1
120°-130°	126.4	4.1
130°-140°	99.2	3.2
140°-150°	76.1	2.5
150°-160°	54.8	1.8
160°-170°	33.5	1.1
170°-180°	11.3	0.4
0°-30°	657.6	21.4
0°-40°	1074.5	34.9
0°-60°	1870.9	60.8
0°-90°	2308.8	75.0
90°-120°	367.3	11.9
90°-150°	669.0	21.7
90°-180°	769.0	25.0
0°-180°	3077.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	846	846	846	846	846	
5°	849	840	843	841	840	81
15°	817	810	817	817	816	230
25°	754	749	760	757	757	347
35°	663	662	673	669	669	415
45°	553	551	557	550	548	426
55°	423	418	417	411	411	377
65°	274	268	269	266	266	271
75°	118	124	131	132	132	128
85°	17	26	31	32	31	23
90°	1	2	6	3	3	1
95°	8	30	100	51	35	8
105°	27	42	168	255	238	29
115°	49	59	135	268	306	48
125°	68	76	122	207	244	60
135°	81	89	119	167	189	62
145°	94	99	117	142	154	59
155°	106	109	117	129	132	49
165°	114	116	117	122	123	32
175°	119	119	118	119	119	11
180°	119	119	119	119	119	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	845.7	845.7	845.7	845.7	845.7
2.5°	850.7	843.4	845.7	843.8	840.7
5°	848.9	840.4	843.4	841.0	840.2
7.5°	842.7	834.3	838.2	836.6	835.9
10°	837.1	828.7	833.2	831.6	830.8
12.5°	829.6	821.8	826.9	825.4	825.2
15°	816.7	809.9	816.7	816.7	816.0
17.5°	800.6	794.3	801.7	802.2	801.7
20°	789.3	782.4	791.7	790.9	791.7
22.5°	775.6	769.9	779.8	777.8	778.5
25°	754.1	748.7	759.6	757.2	757.2
27.5°	728.7	724.9	736.7	734.2	734.2
30°	711.8	708.0	720.4	717.3	717.3
32.5°	693.0	690.4	702.3	698.5	698.5
35°	663.3	661.7	673.4	668.7	668.7
37.5°	632.6	631.2	641.8	636.1	634.3
40°	610.0	609.2	618.6	612.4	612.4
42.5°	587.5	586.7	594.8	587.3	587.3
45°	552.8	551.3	556.8	549.7	548.2
47.5°	515.1	513.6	517.0	509.3	508.5
50°	489.4	487.9	489.4	482.4	481.6
52.5°	463.1	460.4	460.6	453.6	453.4
55°	422.9	417.5	417.4	411.1	411.1
57.5°	380.3	373.2	373.8	368.5	367.7
60°	350.8	343.2	343.8	339.1	338.3
62.5°	322.0	313.1	315.0	309.6	309.5
65°	274.1	267.9	268.6	266.2	266.2
67.5°	228.0	222.4	226.5	224.6	224.4
70°	194.2	190.4	195.8	195.8	195.0
72.5°	162.9	162.7	169.5	169.5	169.9
75°	118.2	123.6	130.8	131.6	131.6
77.5°	78.9	88.4	96.3	96.6	96.5
80°	56.4	67.1	74.4	75.9	75.2
82.5°	38.2	49.5	55.6	57.1	56.4
85°	17.2	26.4	31.3	32.1	31.3
87.5°	5.2	11.0	13.7	13.1	11.9
90°	0.8	2.2	6.1	3.0	3.0
92.5°	3.2	15.4	34.1	15.1	9.7
95°	7.6	29.9	99.6	51.3	35.0
97.5°	13.2	32.8	149.0	118.5	87.3
100°	17.5	35.3	164.2	166.4	129.2
102.5°	21.1	37.8	168.5	207.3	175.4
105°	27.4	41.5	168.0	255.0	237.9
107.5°	33.8	46.8	158.4	279.8	284.0
110°	38.0	49.9	150.5	286.2	304.1

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	42.3	53.6	143.2	282.2	309.5
115°	48.7	59.1	134.6	268.4	306.4
117.5°	54.9	64.4	128.6	249.4	291.5
120°	58.5	67.5	126.2	236.6	277.5
122.5°	62.2	71.1	124.4	223.8	264.1
125°	67.7	75.8	122.4	206.9	244.0
127.5°	72.1	80.4	120.7	193.2	224.6
130°	74.5	83.4	120.1	184.6	213.6
132.5°	76.9	85.8	119.5	177.3	203.3
135°	80.6	88.8	118.6	167.0	189.3
137.5°	84.4	92.4	118.4	159.3	177.6
140°	87.4	94.9	117.8	153.2	170.3
142.5°	89.9	96.7	117.8	148.9	163.6
145°	93.5	99.4	117.1	142.4	153.6
147.5°	97.2	102.9	117.1	137.0	146.3
150°	99.6	104.8	117.1	134.0	141.4
152.5°	102.0	106.0	117.1	131.5	137.1
155°	105.7	108.6	117.1	128.6	132.3
157.5°	108.4	111.2	117.1	125.9	128.6
160°	110.2	112.5	117.1	124.7	126.2
162.5°	112.0	113.7	117.1	123.5	125.0
165°	114.0	115.5	117.1	121.7	123.1
167.5°	115.9	116.6	117.8	120.9	121.5
170°	117.1	117.8	117.8	120.9	120.9
172.5°	117.7	117.8	117.8	120.2	119.7
175°	118.6	118.6	117.8	119.3	119.3
177.5°	118.6	118.6	118.0	119.2	118.6
180°	118.6	118.6	118.6	118.6	118.6

(END OF REPORT)