

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: P562514

Luminaire Tested: **SQ4-PC3-025U-050D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562514  
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-050D-840-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

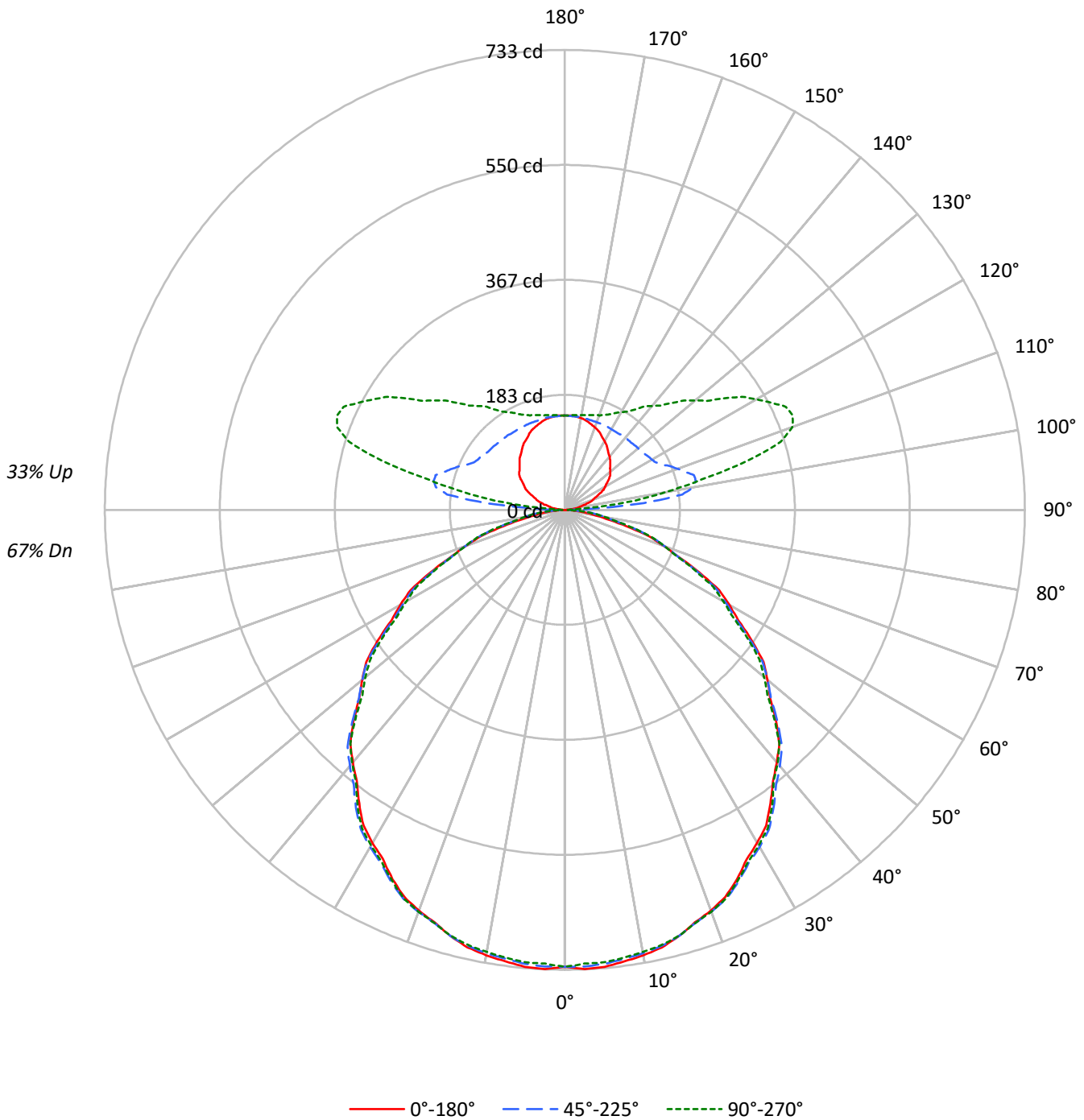
Lumens per Lamp: N/A  
Luminaire Lumens: 2964.2 lumens  
Efficiency: N/A  
Efficacy: 134.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 22.1  
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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	67
1	102	97	93	90	96	92	88	85	82	79	77	72	70	68	64	62	61	57
2	93	85	79	73	87	80	75	70	72	67	63	63	60	57	56	54	51	47
3	85	75	67	61	79	71	64	59	63	58	53	56	52	48	50	46	44	40
4	77	66	58	52	73	63	55	50	56	50	45	50	45	41	44	41	38	34
5	71	59	51	44	67	56	48	43	50	44	39	45	40	36	40	36	33	30
6	65	53	45	39	61	50	43	37	45	39	34	41	35	31	36	32	29	26
7	61	48	40	34	57	46	38	33	41	35	30	37	32	28	33	29	26	23
8	56	44	36	30	53	41	34	29	38	31	27	34	29	25	30	26	23	21
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	28	24	21	19
10	49	37	29	24	46	35	28	23	32	26	22	29	24	20	26	22	19	17

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

	0°	45°	90°
0°	6719	6719	6719
5°	6770	6727	6702
10°	6754	6722	6703
15°	6719	6719	6712
20°	6674	6694	6694
25°	6611	6660	6638
30°	6531	6609	6581
35°	6433	6533	6486
40°	6327	6417	6352
45°	6212	6256	6160
50°	6050	6050	5952
55°	5858	5781	5696
60°	5574	5464	5375
65°	5152	5050	5006
70°	4510	4548	4529
75°	3629	4014	4039
80°	2582	3406	3438
85°	1567	2858	2858



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.9	2.3
10°-20°	197.8	6.7
20°-30°	299.6	10.1
30°-40°	359.1	12.1
40°-50°	366.2	12.4
50°-60°	319.7	10.8
60°-70°	228.8	7.7
70°-80°	117.9	4.0
80°-90°	30.6	1.0
90°-100°	73.4	2.5
100°-110°	192.9	6.5
110°-120°	200.0	6.7
120°-130°	160.4	5.4
130°-140°	125.9	4.2
140°-150°	96.6	3.3
150°-160°	69.6	2.3
160°-170°	42.6	1.4
170°-180°	14.4	0.5
0°-30°	566.3	19.1
0°-40°	925.4	31.2
0°-60°	1611.3	54.4
0°-90°	1988.6	67.1
90°-120°	466.2	15.7
90°-150°	849.1	28.6
90°-180°	976.0	32.9
0°-180°	2964.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	728	728	728	728	728	
5°	731	724	726	724	724	69
15°	703	697	703	703	703	198
25°	649	645	654	652	652	299
35°	571	570	580	576	576	357
45°	476	475	480	473	472	366
55°	364	360	359	354	354	325
65°	236	231	231	229	229	233
75°	102	106	113	113	113	110
85°	15	23	27	28	27	20
90°	1	3	8	4	4	1
95°	10	38	126	65	44	11
105°	35	53	213	324	302	37
115°	62	75	171	341	389	61
125°	86	96	155	263	310	76
135°	102	113	150	212	240	79
145°	119	126	149	181	195	74
155°	134	138	149	163	168	62
165°	145	147	149	154	156	41
175°	150	150	150	152	152	14
180°	150	150	150	150	150	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	728.3	728.3	728.3	728.3	728.3
2.5°	732.7	726.3	728.3	726.7	724.0
5°	731.0	723.8	726.3	724.3	723.6
7.5°	725.8	718.5	721.9	720.5	719.8
10°	720.9	713.7	717.5	716.2	715.5
12.5°	714.4	707.7	712.1	710.8	710.7
15°	703.4	697.4	703.4	703.4	702.7
17.5°	689.5	684.1	690.4	690.8	690.4
20°	679.8	673.8	681.8	681.1	681.8
22.5°	667.9	663.0	671.6	669.8	670.5
25°	649.4	644.8	654.2	652.1	652.1
27.5°	627.6	624.3	634.5	632.3	632.3
30°	613.0	609.7	620.4	617.7	617.7
32.5°	596.8	594.6	604.8	601.6	601.6
35°	571.2	569.9	580.0	575.9	575.9
37.5°	544.8	543.6	552.7	547.8	546.3
40°	525.3	524.7	532.8	527.4	527.4
42.5°	505.9	505.3	512.3	505.8	505.8
45°	476.1	474.8	479.5	473.4	472.1
47.5°	443.6	442.3	445.2	438.6	437.9
50°	421.5	420.2	421.5	415.4	414.7
52.5°	398.8	396.5	396.7	390.6	390.5
55°	364.2	359.6	359.4	354.1	354.1
57.5°	327.5	321.4	322.0	317.4	316.7
60°	302.1	295.5	296.1	292.0	291.3
62.5°	277.3	269.7	271.2	266.6	266.5
65°	236.0	230.8	231.3	229.3	229.3
67.5°	196.4	191.5	195.0	193.4	193.3
70°	167.2	164.0	168.6	168.6	167.9
72.5°	140.3	140.1	145.9	145.9	146.3
75°	101.8	106.4	112.6	113.3	113.3
77.5°	68.0	76.2	82.9	83.2	83.1
80°	48.6	57.8	64.1	65.4	64.7
82.5°	32.9	42.7	47.9	49.2	48.6
85°	14.8	22.7	27.0	27.6	27.0
87.5°	4.5	9.6	12.3	11.5	10.5
90°	1.0	2.9	7.7	3.9	3.9
92.5°	4.1	19.5	43.2	19.1	12.4
95°	9.6	38.0	126.4	65.1	44.4
97.5°	16.8	41.7	189.1	150.4	110.8
100°	22.2	44.8	208.4	211.2	164.0
102.5°	26.8	48.0	213.8	263.1	222.7
105°	34.7	52.7	213.2	323.7	302.0
107.5°	42.8	59.4	201.1	355.2	360.5
110°	48.2	63.3	191.1	363.3	386.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	53.6	68.0	181.8	358.2	392.9
115°	61.8	75.0	170.8	340.7	388.9
117.5°	69.7	81.7	163.3	316.5	369.9
120°	74.3	85.6	160.2	300.3	352.2
122.5°	78.9	90.3	157.9	284.1	335.2
125°	85.9	96.3	155.3	262.6	309.7
127.5°	91.5	102.0	153.2	245.2	285.0
130°	94.6	105.9	152.5	234.3	271.1
132.5°	97.6	109.0	151.7	225.0	258.0
135°	102.3	112.7	150.5	212.0	240.3
137.5°	107.1	117.3	150.3	202.2	225.4
140°	111.0	120.4	149.6	194.4	216.1
142.5°	114.1	122.7	149.6	189.0	207.6
145°	118.7	126.2	148.6	180.8	194.9
147.5°	123.3	130.7	148.6	173.9	185.6
150°	126.4	133.0	148.6	170.0	179.5
152.5°	129.5	134.6	148.6	166.9	174.1
155°	134.1	137.9	148.6	163.2	167.9
157.5°	137.6	141.2	148.6	159.9	163.3
160°	139.9	142.7	148.6	158.3	160.2
162.5°	142.2	144.3	148.6	156.7	158.6
165°	144.7	146.6	148.6	154.4	156.3
167.5°	147.1	148.0	149.6	153.4	154.2
170°	148.6	149.5	149.6	153.4	153.4
172.5°	149.4	149.6	149.6	152.6	151.9
175°	150.5	150.5	149.6	151.5	151.5
177.5°	150.5	150.5	149.8	151.3	150.5
180°	150.5	150.5	150.5	150.5	150.5

(END OF REPORT)