

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: P561467

Luminaire Tested: **SQ4-PC3-050U-050D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561467  
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-PC3-050U-050D-92765-1D-UNV-STD-W-4 (3500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4210.4 lumens  
Efficiency: N/A  
Efficacy: 115.4 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

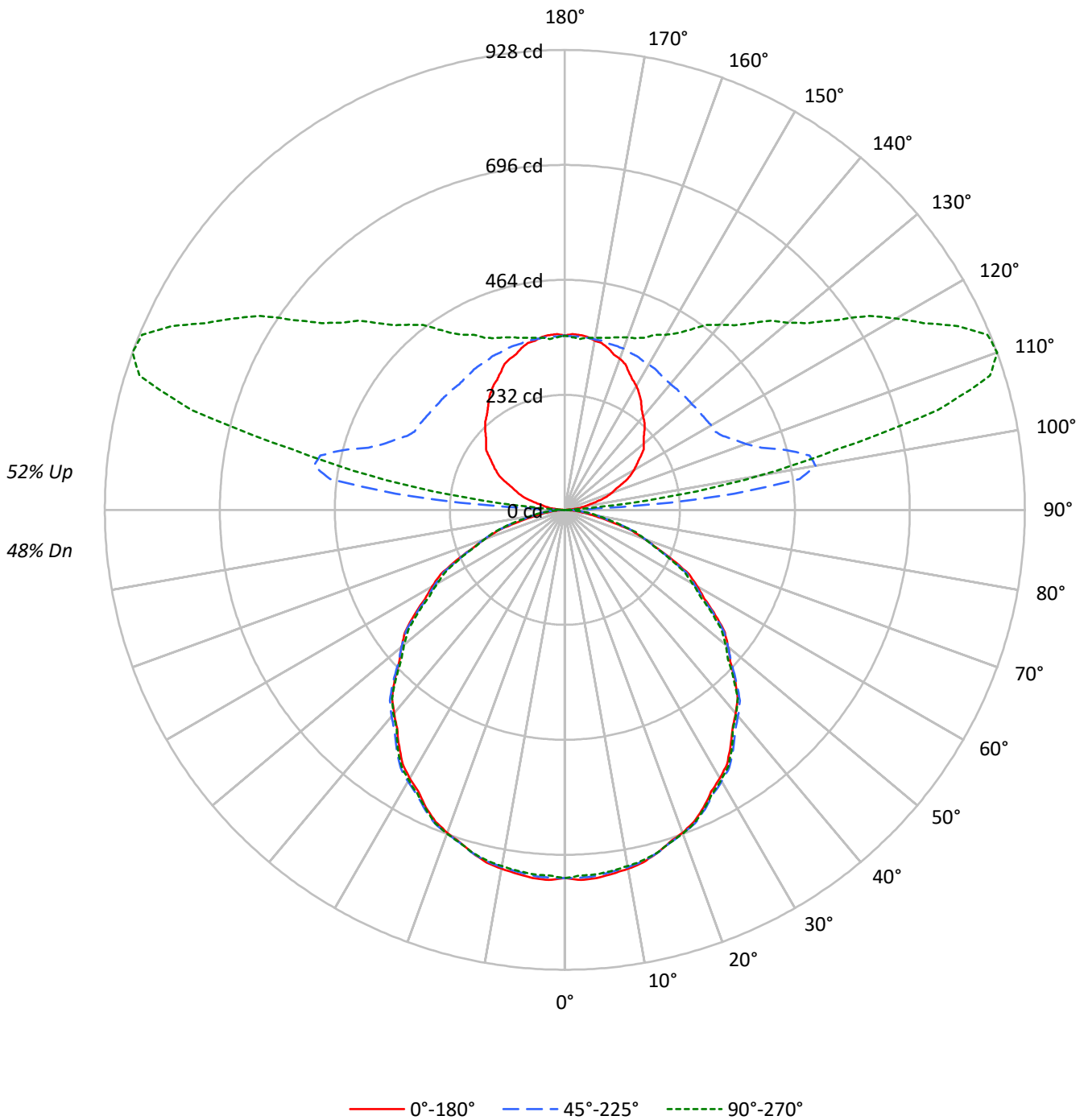
Input Watts (W): 36.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48
1	97	93	89	86	90	86	83	80	72	70	68	60	58	57	48	47	46	41
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	41	39	34
3	81	71	64	58	74	66	60	55	56	51	47	46	43	40	38	35	33	29
4	74	63	55	49	68	58	52	46	50	44	40	41	37	34	34	31	28	25
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	21
6	62	50	42	36	57	47	40	34	40	34	30	33	29	26	27	24	22	19
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17
8	54	41	33	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13
10	47	34	27	22	43	32	26	21	28	22	19	23	19	16	20	16	14	12

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

	0°	45°	90°
0°	6855	6855	6855
5°	6906	6862	6836
10°	6890	6858	6838
15°	6853	6853	6847
20°	6808	6829	6829
25°	6744	6793	6772
30°	6662	6743	6713
35°	6563	6663	6617
40°	6454	6546	6480
45°	6337	6382	6283
50°	6172	6172	6073
55°	5976	5899	5810
60°	5687	5573	5484
65°	5257	5152	5106
70°	4602	4640	4621
75°	3704	4096	4121
80°	2630	3475	3507
85°	1598	2911	2911



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.3	1.7
10°-20°	201.8	4.8
20°-30°	305.6	7.3
30°-40°	366.3	8.7
40°-50°	373.5	8.9
50°-60°	326.1	7.7
60°-70°	233.4	5.5
70°-80°	120.2	2.9
80°-90°	30.4	0.7
90°-100°	160.1	3.8
100°-110°	455.6	10.8
110°-120°	436.5	10.4
120°-130°	345.5	8.2
130°-140°	277.3	6.6
140°-150°	217.1	5.2
150°-160°	158.8	3.8
160°-170°	98.4	2.3
170°-180°	33.4	0.8
0°-30°	577.7	13.7
0°-40°	944.0	22.4
0°-60°	1643.6	39.0
0°-90°	2027.7	48.2
90°-120°	1052.2	25.0
90°-150°	1892.1	44.9
90°-180°	2183.0	51.8
0°-180°	4210.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	743	743	743	743	743	
5°	746	738	741	739	738	71
15°	718	712	718	718	717	202
25°	662	658	667	665	665	305
35°	583	581	592	588	588	364
45°	486	484	489	483	482	374
55°	372	367	367	361	361	331
65°	241	235	236	234	234	238
75°	104	109	115	116	116	112
85°	15	23	28	28	28	21
90°	0	0	0	0	0	1
95°	17	69	310	107	66	20
105°	71	107	464	820	780	75
115°	132	159	352	746	876	130
125°	186	206	336	558	667	166
135°	227	246	332	471	532	175
145°	268	282	335	408	444	167
155°	306	313	343	368	384	141
165°	338	339	347	354	359	95
175°	354	352	351	349	346	34
180°	351	351	351	351	351	

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CATALOG NUMBER: SQ4-PC3-050U-050D-92765-1D-UNV-STD-W-4 (3500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	743.0	743.0	743.0	743.0	743.0
2.5°	747.4	740.9	743.0	741.3	738.6
5°	745.7	738.3	740.9	738.8	738.1
7.5°	740.3	732.9	736.4	735.0	734.3
10°	735.4	728.0	732.0	730.6	729.9
12.5°	728.8	721.9	726.5	725.1	724.9
15°	717.5	711.5	717.5	717.5	716.8
17.5°	703.3	697.8	704.3	704.7	704.3
20°	693.4	687.4	695.5	694.8	695.5
22.5°	681.3	676.3	685.0	683.3	683.9
25°	662.5	657.8	667.3	665.2	665.2
27.5°	640.2	636.8	647.2	645.0	645.0
30°	625.3	622.0	632.9	630.1	630.1
32.5°	608.8	606.5	616.9	613.6	613.6
35°	582.7	581.3	591.6	587.5	587.5
37.5°	555.7	554.5	563.8	558.8	557.2
40°	535.9	535.2	543.5	538.0	538.0
42.5°	516.1	515.4	522.6	515.9	515.9
45°	485.7	484.3	489.1	482.9	481.5
47.5°	452.5	451.2	454.2	447.4	446.7
50°	430.0	428.6	430.0	423.7	423.1
52.5°	406.8	404.4	404.6	398.4	398.3
55°	371.5	366.8	366.7	361.2	361.2
57.5°	334.1	327.9	328.4	323.7	323.1
60°	308.2	301.5	302.0	297.9	297.2
62.5°	282.9	275.1	276.7	272.0	271.9
65°	240.8	235.4	236.0	233.9	233.9
67.5°	200.3	195.3	198.9	197.3	197.2
70°	170.6	167.2	172.0	172.0	171.3
72.5°	143.1	143.0	148.9	148.9	149.3
75°	103.9	108.6	114.9	115.6	115.6
77.5°	69.3	77.7	84.6	84.9	84.8
80°	49.5	58.9	65.4	66.7	66.0
82.5°	33.6	43.5	48.8	50.2	49.5
85°	15.1	23.2	27.5	28.2	27.5
87.5°	4.4	9.2	11.0	11.0	9.9
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.3	28.3	65.7	19.1	14.4
95°	17.4	69.0	310.0	107.3	66.1
97.5°	31.9	80.8	477.4	341.6	234.1
100°	42.1	87.8	513.7	520.4	400.8
102.5°	53.3	95.4	505.7	666.1	561.7
105°	70.8	107.4	464.3	820.1	779.6
107.5°	88.6	121.4	415.9	863.5	899.6
110°	100.9	131.6	388.1	846.9	927.9

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	112.6	141.8	369.4	807.6	923.1
115°	131.6	159.0	352.1	745.8	875.8
117.5°	148.3	174.0	341.8	678.3	815.9
120°	161.7	183.2	340.7	639.6	771.6
122.5°	172.4	193.9	338.0	605.8	728.3
125°	185.7	206.0	336.0	557.6	666.7
127.5°	200.3	219.2	335.0	528.9	618.7
130°	207.8	226.7	333.4	508.8	587.2
132.5°	215.8	234.2	333.4	493.2	565.3
135°	227.1	246.1	332.0	471.0	532.4
137.5°	237.8	256.2	331.9	452.3	505.3
140°	245.8	264.8	331.3	436.7	487.7
142.5°	254.9	270.7	333.0	424.3	470.0
145°	267.9	281.6	334.7	407.7	444.2
147.5°	279.0	292.3	337.6	390.9	422.5
150°	288.6	297.7	338.7	385.3	407.5
152.5°	296.1	305.7	339.8	377.8	398.4
155°	306.0	313.1	342.7	368.4	383.5
157.5°	318.3	322.6	343.4	364.2	374.9
160°	324.7	327.9	346.0	361.0	370.1
162.5°	328.4	332.2	346.6	358.2	365.3
165°	338.0	339.3	346.7	354.2	359.4
167.5°	344.6	343.4	349.8	353.2	355.3
170°	346.7	346.1	348.7	349.4	352.1
172.5°	351.5	349.3	350.3	348.4	350.5
175°	354.1	352.1	350.7	348.7	346.0
177.5°	355.1	352.0	350.3	348.2	348.7
180°	351.4	351.4	351.4	351.4	351.4

(END OF REPORT)