

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: P561468

Luminaire Tested: **SQ4-PC3-050U-050D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561468  
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 (4000K)  
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 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

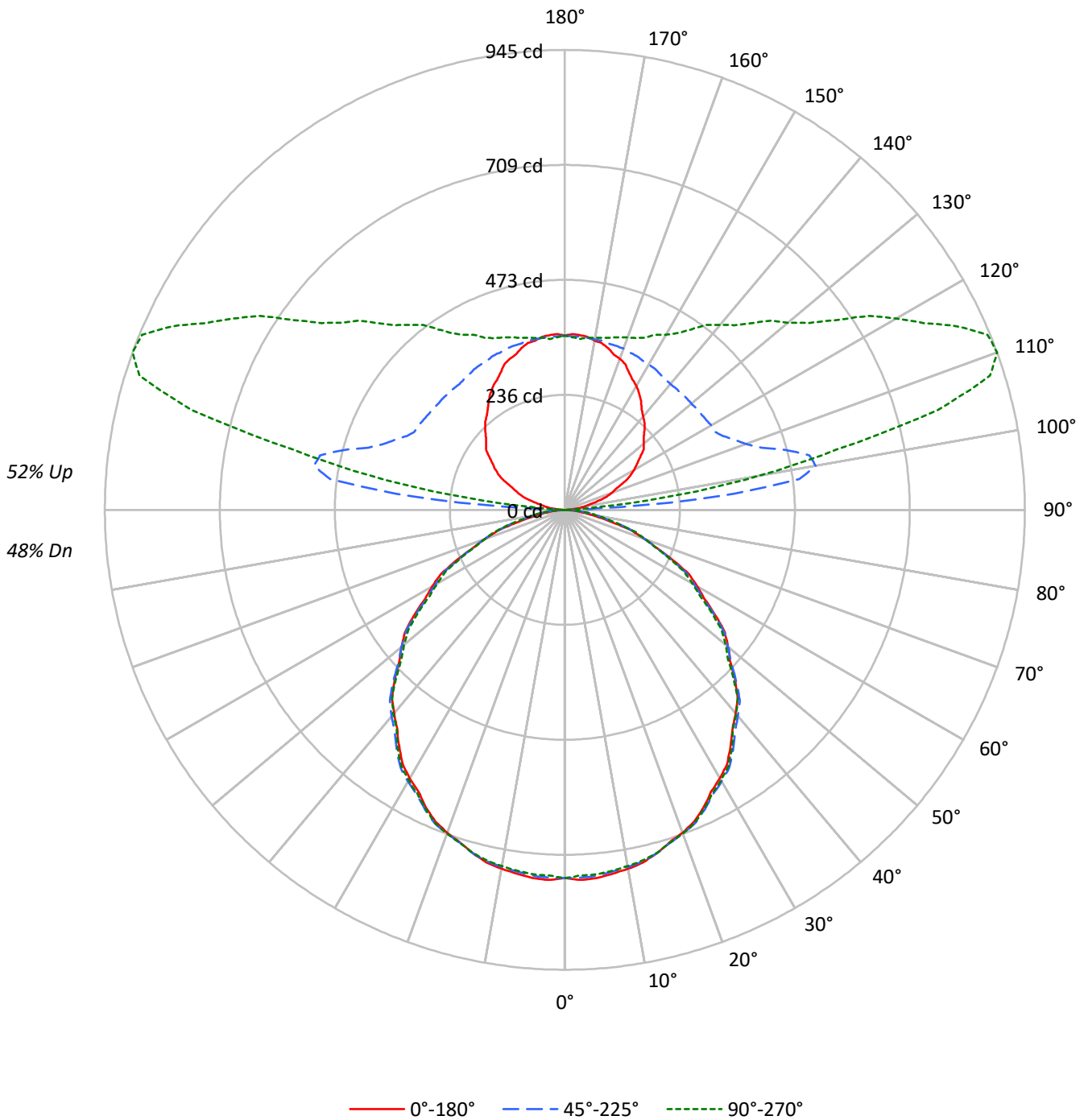
Lumens per Lamp: N/A  
Luminaire Lumens: 4287.4 lumens  
Efficiency: N/A  
Efficacy: 117.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

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°	6981	6981	6981
5°	7033	6988	6962
10°	7015	6982	6963
15°	6978	6978	6972
20°	6933	6953	6953
25°	6867	6917	6896
30°	6784	6866	6836
35°	6682	6785	6738
40°	6572	6665	6598
45°	6453	6499	6399
50°	6284	6284	6183
55°	6085	6006	5916
60°	5790	5674	5584
65°	5353	5246	5200
70°	4686	4723	4705
75°	3771	4171	4196
80°	2678	3533	3570
85°	1630	2964	2964



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.6	1.7
10°-20°	205.5	4.8
20°-30°	311.2	7.3
30°-40°	373.0	8.7
40°-50°	380.4	8.9
50°-60°	332.0	7.7
60°-70°	237.7	5.5
70°-80°	122.4	2.9
80°-90°	30.9	0.7
90°-100°	163.0	3.8
100°-110°	463.9	10.8
110°-120°	444.5	10.4
120°-130°	351.8	8.2
130°-140°	282.4	6.6
140°-150°	221.1	5.2
150°-160°	161.8	3.8
160°-170°	100.2	2.3
170°-180°	34.0	0.8
0°-30°	588.2	13.7
0°-40°	961.3	22.4
0°-60°	1673.7	39.0
0°-90°	2064.8	48.2
90°-120°	1071.5	25.0
90°-150°	1926.7	44.9
90°-180°	2223.0	51.8
0°-180°	4287.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	757	757	757	757	757	
5°	759	752	754	752	752	72
15°	731	724	731	731	730	206
25°	675	670	680	677	677	310
35°	593	592	602	598	598	371
45°	495	493	498	492	490	381
55°	378	374	373	368	368	337
65°	245	240	240	238	238	242
75°	106	111	117	118	118	114
85°	15	24	28	29	28	21
90°	0	0	0	0	0	1
95°	18	70	316	109	67	20
105°	72	109	473	835	794	76
115°	134	162	358	760	892	132
125°	189	210	342	568	679	169
135°	231	251	338	480	542	178
145°	273	287	341	415	452	170
155°	312	319	349	375	390	144
165°	344	346	353	361	366	97
175°	360	358	357	355	352	34
180°	358	358	358	358	358	

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CATALOG NUMBER: SQ4-PC3-050U-050D-92765-1D-UNV-STD-W-4 (4000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	756.6	756.6	756.6	756.6	756.6
2.5°	761.0	754.5	756.6	754.8	752.1
5°	759.4	751.8	754.5	752.3	751.7
7.5°	753.9	746.4	749.8	748.4	747.7
10°	748.8	741.3	745.3	743.9	743.2
12.5°	742.1	735.1	739.7	738.3	738.2
15°	730.6	724.5	730.6	730.6	729.9
17.5°	716.2	710.6	717.2	717.6	717.2
20°	706.1	700.0	708.2	707.5	708.2
22.5°	693.8	688.7	697.6	695.8	696.5
25°	674.6	669.8	679.5	677.4	677.4
27.5°	651.9	648.5	659.0	656.8	656.8
30°	636.8	633.3	644.5	641.7	641.7
32.5°	620.0	617.6	628.2	624.9	624.9
35°	593.3	592.0	602.4	598.2	598.2
37.5°	565.9	564.6	574.1	569.1	567.4
40°	545.7	545.0	553.4	547.8	547.8
42.5°	525.5	524.8	532.1	525.4	525.4
45°	494.6	493.2	498.1	491.7	490.4
47.5°	460.8	459.4	462.5	455.6	454.9
50°	437.8	436.5	437.8	431.5	430.8
52.5°	414.3	411.8	412.0	405.7	405.6
55°	378.3	373.5	373.4	367.8	367.8
57.5°	340.2	333.9	334.4	329.6	329.0
60°	313.8	307.0	307.5	303.3	302.6
62.5°	288.1	280.1	281.7	277.0	276.8
65°	245.2	239.7	240.3	238.2	238.2
67.5°	204.0	198.9	202.6	200.9	200.8
70°	173.7	170.3	175.1	175.1	174.4
72.5°	145.7	145.6	151.6	151.6	152.0
75°	105.8	110.6	117.0	117.7	117.7
77.5°	70.6	79.1	86.2	86.4	86.3
80°	50.4	60.0	66.5	67.9	67.2
82.5°	34.2	44.3	49.7	51.1	50.4
85°	15.4	23.6	28.0	28.7	28.0
87.5°	4.5	9.4	11.2	11.2	10.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.4	28.9	66.9	19.5	14.7
95°	17.7	70.2	315.6	109.3	67.3
97.5°	32.5	82.3	486.1	347.8	238.4
100°	42.9	89.4	523.1	529.9	408.2
102.5°	54.3	97.1	515.0	678.3	572.0
105°	72.1	109.4	472.8	835.1	793.9
107.5°	90.2	123.6	423.5	879.3	916.0
110°	102.7	134.0	395.2	862.4	944.9

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	114.7	144.4	376.2	822.4	940.0
115°	134.0	161.9	358.5	759.5	891.8
117.5°	151.0	177.2	348.0	690.7	830.9
120°	164.6	186.6	346.9	651.3	785.7
122.5°	175.5	197.5	344.2	616.8	741.6
125°	189.1	209.7	342.2	567.8	678.9
127.5°	203.9	223.2	341.1	538.5	630.1
130°	211.6	230.9	339.5	518.1	598.0
132.5°	219.7	238.5	339.5	502.2	575.6
135°	231.3	250.6	338.1	479.6	542.2
137.5°	242.2	260.9	338.0	460.5	514.6
140°	250.3	269.6	337.4	444.7	496.6
142.5°	259.6	275.7	339.0	432.1	478.6
145°	272.8	286.8	340.8	415.1	452.4
147.5°	284.1	297.6	343.8	398.0	430.2
150°	293.9	303.2	344.9	392.3	415.0
152.5°	301.5	311.3	346.0	384.7	405.7
155°	311.6	318.9	349.0	375.2	390.5
157.5°	324.1	328.5	349.7	370.9	381.8
160°	330.6	333.9	352.4	367.6	376.9
162.5°	334.4	338.3	352.9	364.8	372.0
165°	344.2	345.5	353.1	360.7	366.0
167.5°	350.9	349.7	356.2	359.6	361.8
170°	353.1	352.4	355.1	355.8	358.5
172.5°	358.0	355.7	356.7	354.7	356.9
175°	360.5	358.5	357.1	355.0	352.4
177.5°	361.6	358.4	356.7	354.6	355.1
180°	357.8	357.8	357.8	357.8	357.8

(END OF REPORT)