

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: P523672

Luminaire Tested: **SQ4-PP3-050U-050D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/24/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P523672  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/24/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-050U-050D-92765-1D-UNV-STD-W-4 (3000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4093.1 lumens  
Efficiency: N/A  
Efficacy: 112.1 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

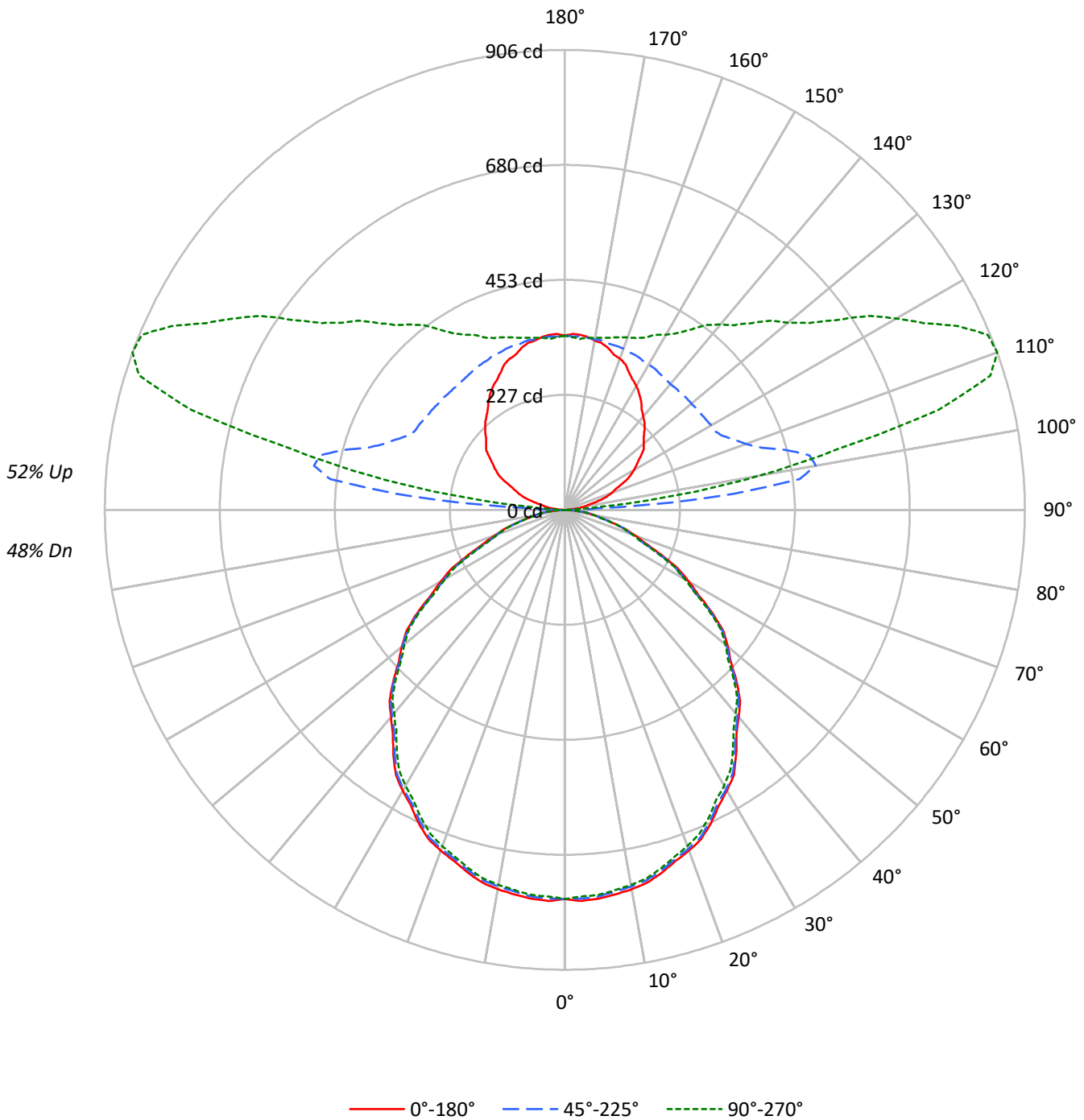
Input Watts (W): 36.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	98	93	90	86	90	86	83	80	72	70	68	60	58	57	48	47	46	41
2	89	82	76	71	82	75	70	66	64	60	56	53	50	48	43	41	39	34
3	81	72	65	59	74	66	60	55	56	51	48	47	43	40	38	36	33	29
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29	25
5	68	57	49	43	63	53	45	40	45	39	35	37	33	30	31	28	25	22
6	63	51	43	37	58	47	40	35	40	35	31	34	30	26	28	25	22	19
7	58	46	38	33	53	43	36	31	37	31	27	31	27	23	25	22	20	17
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	23	20	18	15
9	50	38	31	26	46	35	29	24	31	25	21	26	22	19	21	18	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

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

	0°	45°	90°
0°	7071	7071	7071
5°	7122	7079	7054
10°	7111	7060	7028
15°	7063	7025	6986
20°	7016	6977	6924
25°	6934	6886	6817
30°	6804	6769	6683
35°	6627	6581	6498
40°	6415	6375	6301
45°	6239	6196	6135
50°	6016	5977	5919
55°	5704	5628	5585
60°	5193	5045	5019
65°	4576	4384	4371
70°	3949	3787	3787
75°	3401	3351	3305
80°	2997	3034	2959
85°	2350	2562	2562



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.5	1.8
10°-20°	206.9	5.1
20°-30°	309.9	7.6
30°-40°	363.5	8.9
40°-50°	364.7	8.9
50°-60°	311.1	7.6
60°-70°	202.9	5.0
70°-80°	101.8	2.5
80°-90°	28.2	0.7
90°-100°	156.4	3.8
100°-110°	444.9	10.9
110°-120°	426.3	10.4
120°-130°	337.4	8.2
130°-140°	270.8	6.6
140°-150°	212.0	5.2
150°-160°	155.1	3.8
160°-170°	96.1	2.3
170°-180°	32.6	0.8
0°-30°	589.3	14.4
0°-40°	952.8	23.3
0°-60°	1628.6	39.8
0°-90°	1961.4	47.9
90°-120°	1027.6	25.1
90°-150°	1847.8	45.1
90°-180°	2132.0	52.1
0°-180°	4093.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	766	766	766	766	766	
5°	769	762	764	762	762	73
15°	740	732	736	733	731	209
25°	681	673	676	670	670	313
35°	588	582	584	578	577	368
45°	478	475	475	470	470	368
55°	355	353	350	348	347	315
65°	210	206	201	200	200	209
75°	95	95	94	93	93	103
85°	22	24	24	24	24	26
90°	0	0	0	0	0	2
95°	17	67	303	105	65	19
105°	69	105	453	801	761	73
115°	128	155	344	728	855	127
125°	181	201	328	545	651	162
135°	222	240	324	460	520	171
145°	262	275	327	398	434	163
155°	299	306	335	360	374	138
165°	330	331	339	346	351	93
175°	346	344	342	340	338	33
180°	343	343	343	343	343	

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CATALOG NUMBER: SQ4-PP3-050U-050D-92765-1D-UNV-STD-W-4 (3000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	766.4	766.4	766.4	766.4	766.4
2.5°	771.2	764.9	766.4	765.2	762.1
5°	769.0	761.8	764.3	761.6	761.6
7.5°	763.8	755.9	758.4	755.7	755.6
10°	759.0	751.1	753.6	750.9	750.2
12.5°	752.0	744.1	747.1	743.9	743.8
15°	739.5	732.3	735.5	732.7	731.4
17.5°	725.4	717.5	721.4	717.6	717.1
20°	714.6	706.8	710.6	705.2	705.2
22.5°	701.7	693.9	698.2	691.3	691.3
25°	681.1	673.2	676.4	670.3	669.6
27.5°	656.5	648.7	652.0	645.2	645.1
30°	638.7	631.5	635.4	628.0	627.3
32.5°	619.4	612.7	615.5	608.1	607.4
35°	588.4	582.5	584.3	577.6	576.9
37.5°	555.7	549.7	551.8	546.0	545.8
40°	532.6	528.7	529.3	524.5	523.2
42.5°	511.1	506.7	507.2	502.5	502.3
45°	478.2	474.9	474.9	470.2	470.2
47.5°	443.3	440.8	440.1	436.2	436.0
50°	419.1	417.1	416.4	413.0	412.4
52.5°	393.9	392.9	390.6	387.8	387.7
55°	354.6	353.3	349.9	347.9	347.2
57.5°	312.0	309.4	305.6	302.7	303.2
60°	281.4	278.8	273.4	272.0	272.0
62.5°	251.9	248.7	243.3	241.4	242.5
65°	209.6	205.6	200.8	199.5	200.2
67.5°	171.1	167.6	162.4	162.4	161.9
70°	146.4	144.4	140.4	140.4	140.4
72.5°	124.4	123.5	120.5	120.5	120.0
75°	95.4	95.4	94.0	93.3	92.7
77.5°	71.5	71.7	71.1	70.4	69.2
80°	56.4	57.7	57.1	56.4	55.7
82.5°	42.4	43.8	43.7	42.4	42.3
85°	22.2	24.1	24.2	24.2	24.2
87.5°	5.9	8.0	8.6	8.6	9.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.2	27.7	64.2	18.7	14.1
95°	17.0	67.4	302.7	104.8	64.6
97.5°	31.2	78.9	466.2	333.6	228.6
100°	41.1	85.8	501.7	508.2	391.4
102.5°	52.1	93.1	493.9	650.5	548.5
105°	69.2	104.9	453.4	800.9	761.3
107.5°	86.5	118.5	406.2	843.3	878.5
110°	98.5	128.5	379.0	827.1	906.2

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	110.0	138.4	360.8	788.7	901.5
115°	128.5	155.3	343.8	728.3	855.3
117.5°	144.8	170.0	333.8	662.4	796.8
120°	157.9	178.9	332.7	624.7	753.5
122.5°	168.3	189.4	330.1	591.6	711.2
125°	181.4	201.1	328.2	544.6	651.1
127.5°	195.6	214.1	327.1	516.5	604.2
130°	202.9	221.4	325.5	496.9	573.4
132.5°	210.7	228.7	325.5	481.6	552.1
135°	221.8	240.3	324.2	460.0	520.0
137.5°	232.3	250.2	324.1	441.7	493.5
140°	240.1	258.6	323.6	426.5	476.2
142.5°	249.0	264.4	325.2	414.4	459.0
145°	261.6	275.0	326.8	398.1	433.8
147.5°	272.4	285.5	329.7	381.7	412.6
150°	281.8	290.8	330.8	376.3	398.0
152.5°	289.1	298.6	331.8	368.9	389.1
155°	298.8	305.8	334.7	359.8	374.5
157.5°	310.8	315.0	335.3	355.7	366.1
160°	317.1	320.3	337.9	352.5	361.4
162.5°	320.7	324.4	338.5	349.8	356.7
165°	330.1	331.4	338.6	345.9	351.0
167.5°	336.5	335.4	341.6	344.9	346.9
170°	338.6	338.0	340.5	341.3	343.8
172.5°	343.3	341.1	342.1	340.2	342.2
175°	345.8	343.9	342.5	340.5	337.9
177.5°	346.8	343.7	342.1	340.0	340.5
180°	343.2	343.2	343.2	343.2	343.2

(END OF REPORT)