

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: P561466

Luminaire Tested: **SQ4-PC3-050U-050D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561466  
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 (3000K)  
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 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

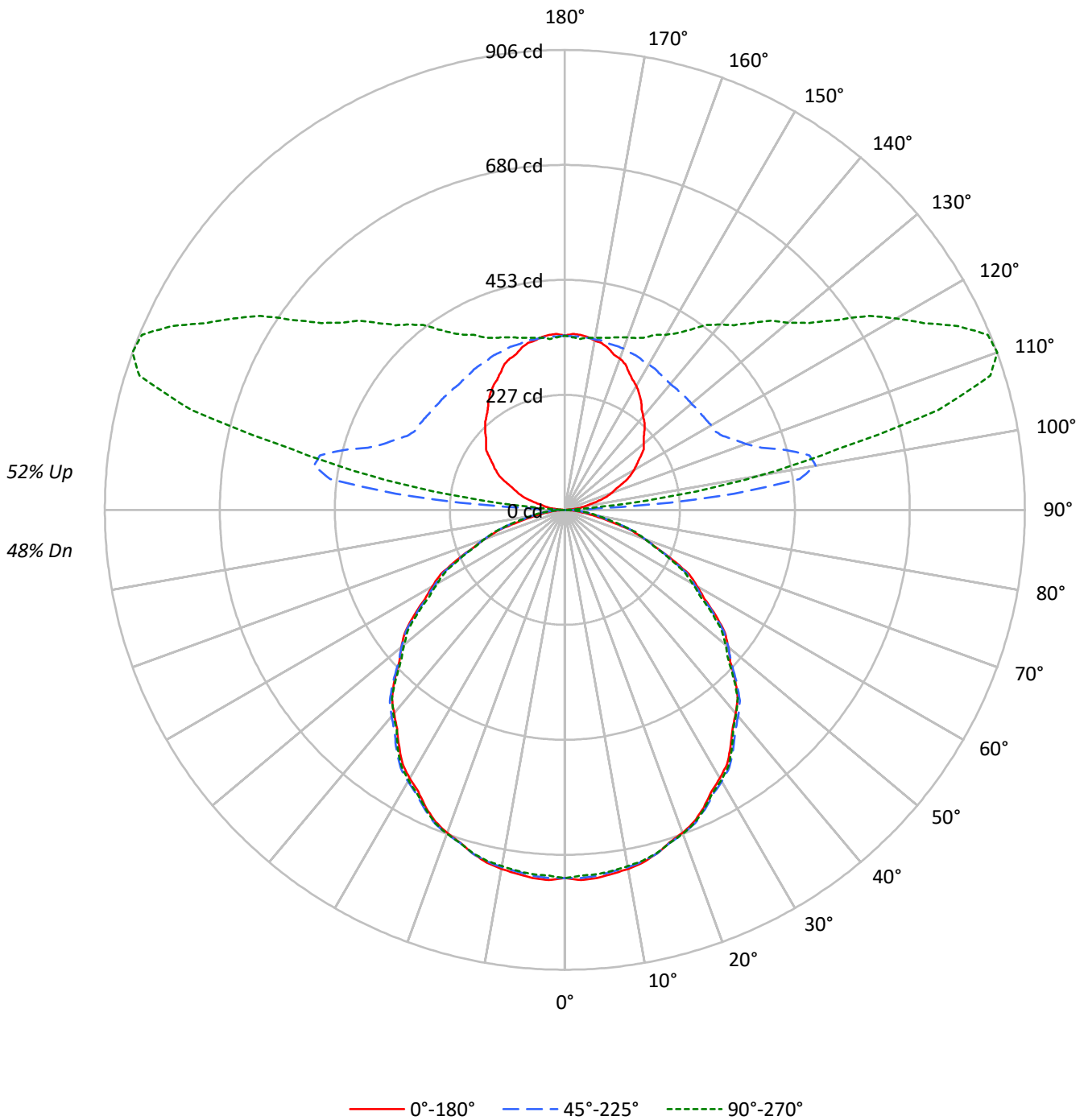
Lumens per Lamp: N/A  
Luminaire Lumens: 4111.8 lumens  
Efficiency: N/A  
Efficacy: 112.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

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°	6695	6695	6695
5°	6744	6701	6676
10°	6728	6697	6678
15°	6693	6693	6686
20°	6649	6669	6669
25°	6586	6634	6613
30°	6506	6585	6556
35°	6409	6508	6462
40°	6303	6392	6328
45°	6189	6233	6136
50°	6027	6027	5931
55°	5836	5760	5673
60°	5554	5442	5355
65°	5132	5030	4986
70°	4494	4532	4513
75°	3615	4000	4025
80°	2572	3390	3427
85°	1567	2848	2848



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.7	1.7
10°-20°	197.1	4.8
20°-30°	298.4	7.3
30°-40°	357.8	8.7
40°-50°	364.8	8.9
50°-60°	318.4	7.7
60°-70°	228.0	5.5
70°-80°	117.4	2.9
80°-90°	29.7	0.7
90°-100°	156.4	3.8
100°-110°	444.9	10.8
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°	564.1	13.7
0°-40°	921.9	22.4
0°-60°	1605.1	39.0
0°-90°	1980.2	48.2
90°-120°	1027.6	25.0
90°-150°	1847.8	44.9
90°-180°	2132.0	51.9
0°-180°	4111.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	726	726	726	726	726	
5°	728	721	724	722	721	69
15°	701	695	701	701	700	198
25°	647	642	652	650	650	298
35°	569	568	578	574	574	356
45°	474	473	478	472	470	365
55°	363	358	358	353	353	323
65°	235	230	230	228	228	233
75°	101	106	112	113	113	110
85°	15	23	27	28	27	20
90°	0	0	0	0	0	1
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-PC3-050U-050D-92765-1D-UNV-STD-W-4 (3000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	725.6	725.6	725.6	725.6	725.6
2.5°	729.9	723.5	725.6	723.9	721.3
5°	728.2	721.0	723.5	721.5	720.8
7.5°	723.0	715.8	719.1	717.7	717.1
10°	718.2	710.9	714.8	713.4	712.8
12.5°	711.7	705.0	709.4	708.1	708.0
15°	700.7	694.8	700.7	700.7	700.0
17.5°	686.9	681.5	687.8	688.2	687.8
20°	677.2	671.3	679.2	678.5	679.2
22.5°	665.4	660.5	669.0	667.3	667.9
25°	647.0	642.4	651.7	649.6	649.6
27.5°	625.2	621.9	632.0	629.9	629.9
30°	610.7	607.4	618.1	615.4	615.4
32.5°	594.5	592.3	602.5	599.3	599.3
35°	569.0	567.7	577.8	573.7	573.7
37.5°	542.7	541.5	550.6	545.7	544.2
40°	523.3	522.7	530.7	525.4	525.4
42.5°	504.0	503.3	510.3	503.9	503.9
45°	474.3	473.0	477.7	471.6	470.3
47.5°	441.9	440.6	443.5	436.9	436.3
50°	419.9	418.6	419.9	413.8	413.2
52.5°	397.3	394.9	395.2	389.1	389.0
55°	362.8	358.2	358.1	352.7	352.7
57.5°	326.2	320.2	320.7	316.1	315.5
60°	301.0	294.4	294.9	290.9	290.2
62.5°	276.2	268.6	270.2	265.6	265.5
65°	235.1	229.9	230.4	228.4	228.4
67.5°	195.6	190.8	194.3	192.7	192.5
70°	166.6	163.3	168.0	167.9	167.3
72.5°	139.7	139.6	145.4	145.4	145.8
75°	101.4	106.0	112.2	112.9	112.9
77.5°	67.7	75.9	82.6	82.9	82.8
80°	48.4	57.6	63.8	65.2	64.5
82.5°	32.8	42.5	47.7	49.0	48.4
85°	14.8	22.7	26.9	27.5	26.9
87.5°	4.3	9.0	10.7	10.7	9.7
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)