

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: P561479

Luminaire Tested: **SQ4-PC3-050U-075D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561479  
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-075D-92765-1D-UNV-STD-W-4 (3000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS  
DOWNLIGHT 750 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: 5097.2 lumens  
Efficiency: N/A  
Efficacy: 106.9 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

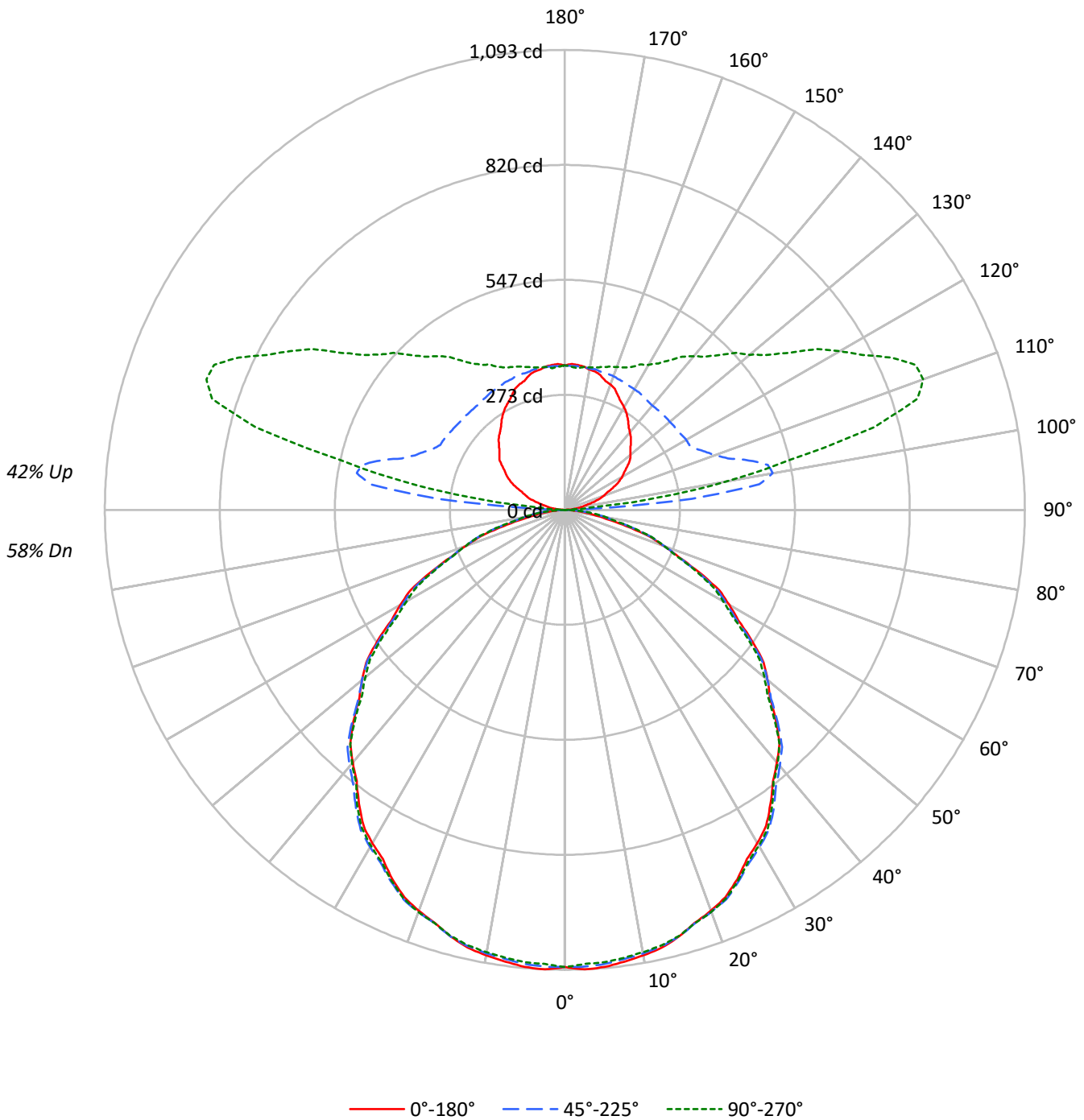
Input Watts (W): 47.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	64	64	64	58
1	100	95	91	88	93	89	86	83	77	75	72	66	65	63	56	55	54	49
2	91	83	77	72	84	78	72	68	68	64	60	58	55	53	50	47	45	41
3	83	73	66	60	77	69	62	57	60	55	50	52	48	44	44	41	39	35
4	76	65	57	51	70	61	54	48	53	47	43	46	42	38	39	36	33	30
5	70	58	49	43	65	54	47	41	47	42	37	41	37	33	35	32	29	26
6	64	52	44	38	60	49	41	36	43	37	32	37	32	29	32	28	25	23
7	59	47	39	33	55	44	37	31	39	33	28	34	29	25	29	25	23	20
8	55	42	35	29	51	40	33	28	35	29	25	31	26	23	27	23	20	18
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	25	21	18	16
10	48	36	28	23	45	34	27	22	30	24	20	26	22	18	23	19	17	15

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

	0°	45°	90°
0°	10025	10025	10025
5°	10101	10036	9999
10°	10076	10029	10001
15°	10024	10024	10014
20°	9958	9987	9987
25°	9863	9935	9904
30°	9744	9861	9818
35°	9598	9746	9677
40°	9440	9573	9476
45°	9268	9334	9190
50°	9025	9025	8882
55°	8739	8627	8496
60°	8316	8150	8019
65°	7687	7534	7468
70°	6730	6784	6757
75°	5415	5989	6024
80°	3847	5079	5133
85°	2339	4256	4256



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.8	2.0
10°-20°	295.1	5.8
20°-30°	446.9	8.8
30°-40°	535.8	10.5
40°-50°	546.3	10.7
50°-60°	476.9	9.4
60°-70°	341.4	6.7
70°-80°	175.8	3.4
80°-90°	44.5	0.9
90°-100°	156.4	3.1
100°-110°	444.9	8.7
110°-120°	426.3	8.4
120°-130°	337.4	6.6
130°-140°	270.8	5.3
140°-150°	212.0	4.2
150°-160°	155.1	3.0
160°-170°	96.1	1.9
170°-180°	32.6	0.6
0°-30°	844.9	16.6
0°-40°	1380.6	27.1
0°-60°	2403.8	47.2
0°-90°	2965.6	58.2
90°-120°	1027.6	20.2
90°-150°	1847.8	36.3
90°-180°	2132.0	41.8
0°-180°	5097.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1087	1087	1087	1087	1087	
5°	1091	1080	1084	1081	1080	104
15°	1049	1040	1049	1049	1048	296
25°	969	962	976	973	973	446
35°	852	850	865	859	859	533
45°	710	708	715	706	704	547
55°	543	536	536	528	528	484
65°	352	344	345	342	342	348
75°	152	159	168	169	169	164
85°	22	34	40	41	40	30
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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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1086.6	1086.6	1086.6	1086.6	1086.6
2.5°	1093.0	1083.6	1086.6	1084.1	1080.2
5°	1090.6	1079.8	1083.6	1080.6	1079.6
7.5°	1082.8	1072.0	1077.0	1074.9	1073.9
10°	1075.5	1064.7	1070.5	1068.5	1067.5
12.5°	1065.9	1055.8	1062.5	1060.4	1060.2
15°	1049.4	1040.5	1049.4	1049.4	1048.4
17.5°	1028.7	1020.6	1030.1	1030.7	1030.1
20°	1014.2	1005.3	1017.2	1016.2	1017.2
22.5°	996.5	989.2	1001.9	999.3	1000.3
25°	968.9	962.0	975.9	972.9	972.9
27.5°	936.3	931.4	946.6	943.3	943.3
30°	914.6	909.6	925.6	921.6	921.6
32.5°	890.4	887.1	902.3	897.5	897.5
35°	852.2	850.2	865.3	859.2	859.2
37.5°	812.7	811.0	824.6	817.3	815.0
40°	783.8	782.8	794.8	786.8	786.8
42.5°	754.8	753.8	764.2	754.6	754.6
45°	710.3	708.4	715.4	706.3	704.3
47.5°	661.8	659.9	664.2	654.4	653.4
50°	628.8	626.9	628.8	619.7	618.8
52.5°	595.0	591.5	591.8	582.7	582.5
55°	543.3	536.4	536.3	528.2	528.2
57.5°	488.6	479.5	480.3	473.5	472.5
60°	450.7	440.9	441.7	435.6	434.6
62.5°	413.7	402.3	404.7	397.8	397.6
65°	352.1	344.3	345.1	342.1	342.1
67.5°	293.0	285.7	291.0	288.6	288.4
70°	249.5	244.6	251.5	251.5	250.5
72.5°	209.3	209.1	217.7	217.7	218.3
75°	151.9	158.8	168.0	169.0	169.0
77.5°	101.4	113.6	123.8	124.2	124.0
80°	72.4	86.2	95.6	97.6	96.6
82.5°	49.1	63.7	71.4	73.4	72.4
85°	22.1	33.9	40.2	41.2	40.2
87.5°	6.4	13.5	16.1	16.1	14.5
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)