

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: P561635

Luminaire Tested: **SQ4-PC3-100U-075D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561635  
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-PC3-100U-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 1000 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

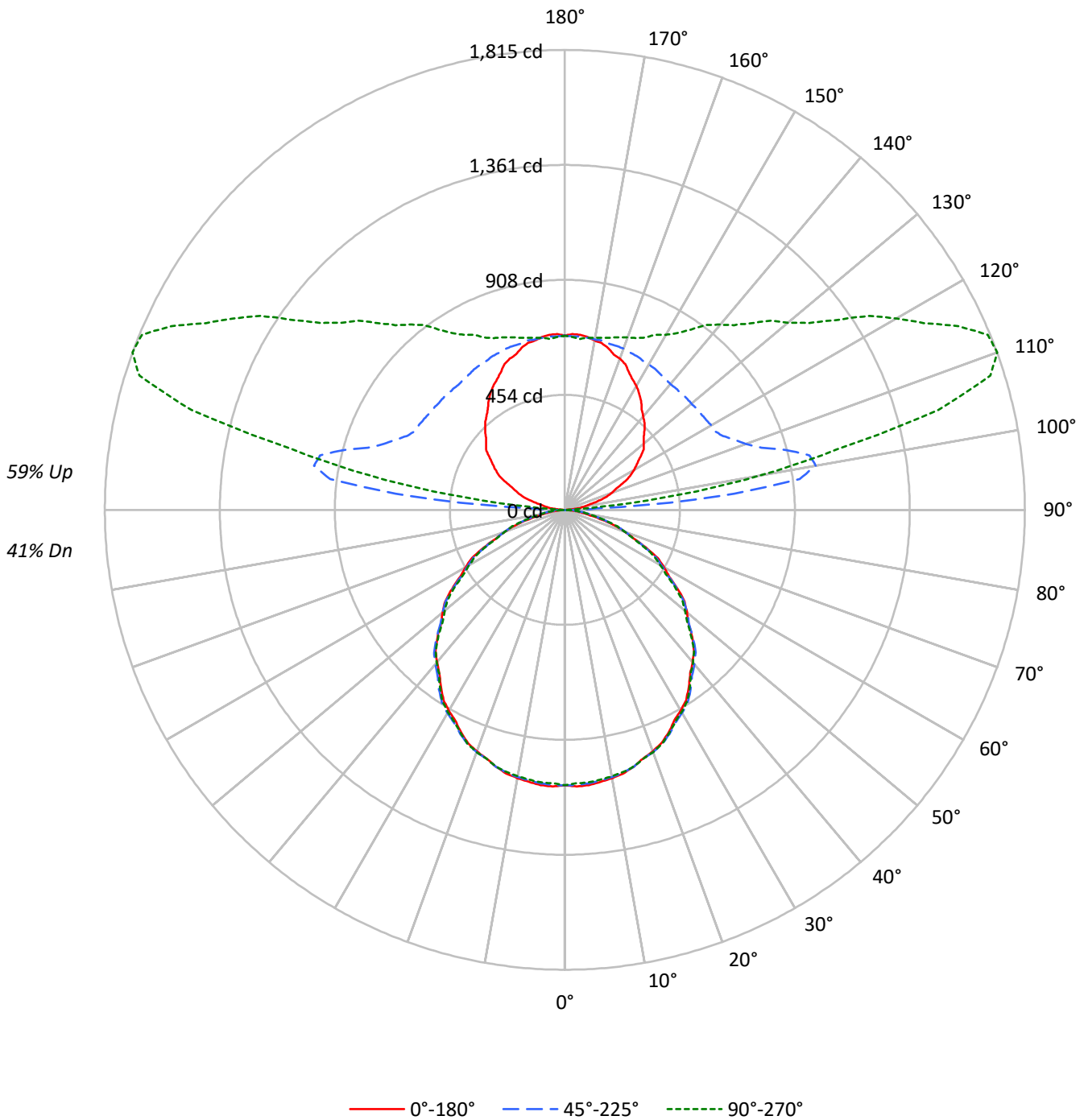
Lumens per Lamp: N/A  
Luminaire Lumens: 7235.6 lumens  
Efficiency: N/A  
Efficacy: 112.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 64.3  
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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	48	48	48	41
1	96	92	88	84	87	84	80	77	69	66	64	55	53	52	42	41	40	35
2	87	80	74	69	79	73	68	64	60	56	53	48	46	43	37	36	34	29
3	80	70	63	57	72	64	58	53	53	48	45	43	39	37	33	31	29	25
4	73	62	54	48	66	57	50	45	47	42	38	38	34	31	29	27	25	21
5	67	55	47	41	61	51	44	38	42	37	33	34	30	27	26	24	22	18
6	61	49	41	36	56	45	38	33	38	32	28	31	27	24	24	21	19	16
7	57	45	37	31	51	41	34	29	34	29	25	28	24	21	22	19	17	14
8	52	40	33	27	48	37	30	26	31	26	22	25	21	19	20	17	15	13
9	49	37	29	24	44	34	27	23	28	23	20	23	19	17	18	16	14	11
10	46	34	27	22	42	31	25	20	26	21	18	21	18	15	17	14	12	10

**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	1.4
10°-20°	295.1	4.1
20°-30°	446.9	6.2
30°-40°	535.8	7.4
40°-50°	546.3	7.6
50°-60°	476.9	6.6
60°-70°	341.4	4.7
70°-80°	175.8	2.4
80°-90°	44.5	0.6
90°-100°	313.2	4.3
100°-110°	891.3	12.3
110°-120°	853.9	11.8
120°-130°	675.9	9.3
130°-140°	542.5	7.5
140°-150°	424.7	5.9
150°-160°	310.7	4.3
160°-170°	192.5	2.7
170°-180°	65.3	0.9
0°-30°	844.9	11.7
0°-40°	1380.6	19.1
0°-60°	2403.8	33.2
0°-90°	2965.6	41.0
90°-120°	2058.5	28.4
90°-150°	3701.5	51.2
90°-180°	4270.0	59.0
0°-180°	7235.6	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°	34	135	606	210	129	39
105°	138	210	908	1604	1525	147
115°	258	311	689	1459	1713	253
125°	363	403	657	1091	1304	325
135°	444	481	650	922	1042	343
145°	524	551	655	798	869	327
155°	599	613	670	721	750	277
165°	661	664	678	693	703	186
175°	693	689	686	682	677	66
180°	687	687	687	687	687	



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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°	10.5	55.4	128.6	37.4	28.2
95°	34.0	134.9	606.4	209.9	129.4
97.5°	62.5	158.1	933.9	668.3	457.9
100°	82.3	171.8	1005.0	1018.0	784.1
102.5°	104.3	186.6	989.3	1303.0	1098.8
105°	138.5	210.1	908.3	1604.4	1525.1
107.5°	173.3	237.4	813.7	1689.3	1759.9
110°	197.3	257.4	759.3	1656.8	1815.3

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	220.3	277.3	722.7	1579.9	1805.9
115°	257.5	311.1	688.7	1459.0	1713.3
117.5°	290.1	340.5	668.6	1326.9	1596.2
120°	316.3	358.4	666.5	1251.3	1509.5
122.5°	337.2	379.3	661.3	1185.0	1424.8
125°	363.3	402.9	657.4	1090.9	1304.3
127.5°	391.8	428.9	655.3	1034.6	1210.4
130°	406.4	443.5	652.1	995.4	1148.8
132.5°	422.1	458.2	652.1	964.8	1105.9
135°	444.3	481.4	649.5	921.5	1041.6
137.5°	465.3	501.3	649.3	884.8	988.5
140°	480.9	518.0	648.2	854.4	954.0
142.5°	498.7	529.6	651.4	830.1	919.5
145°	524.1	550.9	654.8	797.5	869.1
147.5°	545.8	571.8	660.5	764.6	826.5
150°	564.6	582.5	662.6	753.8	797.2
152.5°	579.2	598.1	664.7	739.0	779.4
155°	598.6	612.6	670.4	720.8	750.2
157.5°	622.6	631.0	671.7	712.5	733.4
160°	635.1	641.5	677.0	706.1	724.0
162.5°	642.5	649.9	678.0	700.8	714.6
165°	661.3	663.8	678.3	692.9	703.1
167.5°	674.1	671.8	684.3	690.9	695.0
170°	678.3	677.0	682.2	683.6	688.7
172.5°	687.7	683.3	685.3	681.5	685.6
175°	692.7	688.8	686.1	682.1	677.0
177.5°	694.7	688.6	685.3	681.2	682.2
180°	687.4	687.4	687.4	687.4	687.4

(END OF REPORT)