

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: P561638

Luminaire Tested: **SQ4-PC3-100U-075D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561638  
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 (4500K)  
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 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

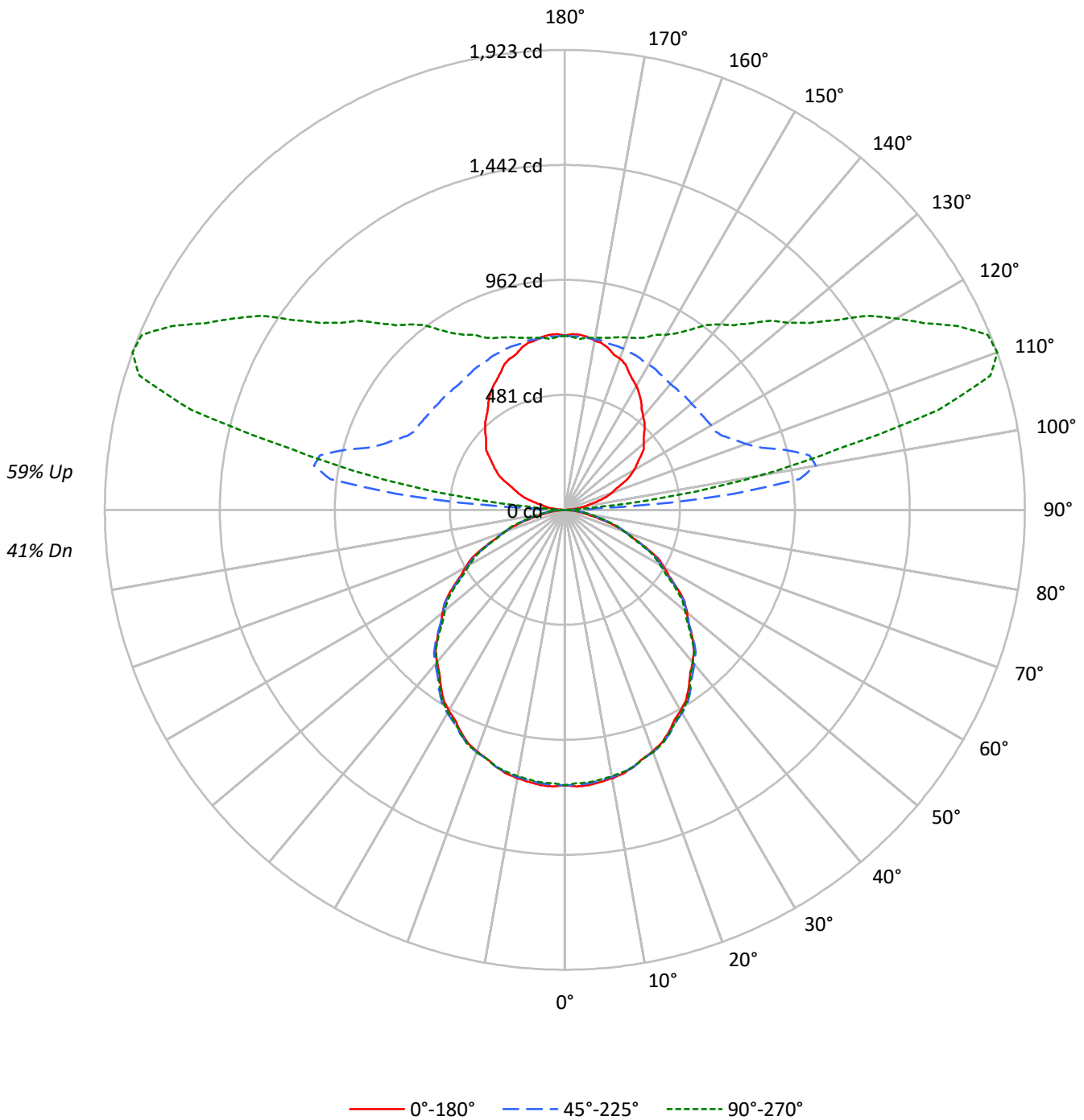
Lumens per Lamp: N/A  
Luminaire Lumens: 7666.5 lumens  
Efficiency: N/A  
Efficacy: 119.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

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°	10622	10622	10622
5°	10703	10633	10594
10°	10676	10627	10597
15°	10620	10620	10610
20°	10551	10582	10582
25°	10451	10527	10495
30°	10323	10449	10403
35°	10169	10326	10254
40°	10001	10143	10040
45°	9820	9890	9736
50°	9564	9564	9410
55°	9260	9140	9003
60°	8813	8636	8497
65°	8145	7981	7914
70°	7132	7189	7159
75°	5739	6345	6384
80°	4081	5382	5435
85°	2488	4510	4510



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.0	1.4
10°-20°	312.7	4.1
20°-30°	473.5	6.2
30°-40°	567.7	7.4
40°-50°	578.8	7.6
50°-60°	505.3	6.6
60°-70°	361.8	4.7
70°-80°	186.3	2.4
80°-90°	47.1	0.6
90°-100°	331.9	4.3
100°-110°	944.4	12.3
110°-120°	904.8	11.8
120°-130°	716.1	9.3
130°-140°	574.8	7.5
140°-150°	450.0	5.9
150°-160°	329.3	4.3
160°-170°	203.9	2.7
170°-180°	69.2	0.9
0°-30°	895.2	11.7
0°-40°	1462.9	19.1
0°-60°	2547.0	33.2
0°-90°	3142.2	41.0
90°-120°	2181.1	28.4
90°-150°	3921.9	51.2
90°-180°	4524.0	59.0
0°-180°	7666.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1151	1151	1151	1151	1151	
5°	1156	1144	1148	1145	1144	110
15°	1112	1102	1112	1112	1111	314
25°	1027	1019	1034	1031	1031	472
35°	903	901	917	910	910	565
45°	753	750	758	748	746	579
55°	576	568	568	560	560	513
65°	373	365	366	362	362	369
75°	161	168	178	179	179	174
85°	24	36	43	44	43	32
90°	0	0	0	0	0	2
95°	36	143	642	222	137	41
105°	147	223	962	1700	1616	155
115°	273	330	730	1546	1815	269
125°	385	427	696	1156	1382	345
135°	471	510	688	976	1104	363
145°	555	584	694	845	921	347
155°	634	649	710	764	795	293
165°	701	703	719	734	745	197
175°	734	730	727	723	717	70
180°	728	728	728	728	728	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1151.3	1151.3	1151.3	1151.3	1151.3
2.5°	1158.1	1148.1	1151.3	1148.7	1144.5
5°	1155.6	1144.1	1148.1	1144.9	1143.9
7.5°	1147.3	1135.8	1141.1	1138.9	1137.9
10°	1139.6	1128.1	1134.3	1132.1	1131.1
12.5°	1129.4	1118.7	1125.7	1123.6	1123.4
15°	1111.9	1102.5	1111.9	1111.9	1110.8
17.5°	1089.9	1081.4	1091.4	1092.0	1091.4
20°	1074.6	1065.2	1077.8	1076.7	1077.8
22.5°	1055.8	1048.1	1061.6	1058.8	1059.9
25°	1026.6	1019.3	1034.1	1030.9	1030.9
27.5°	992.1	986.8	1002.9	999.5	999.5
30°	969.0	963.8	980.8	976.5	976.5
32.5°	943.4	939.9	956.0	950.9	950.9
35°	902.9	900.8	916.8	910.4	910.4
37.5°	861.1	859.3	873.7	866.0	863.5
40°	830.4	829.4	842.2	833.6	833.6
42.5°	799.7	798.7	809.8	799.5	799.5
45°	752.6	750.5	758.0	748.3	746.2
47.5°	701.2	699.2	703.8	693.3	692.3
50°	666.3	664.2	666.3	656.7	655.6
52.5°	630.5	626.7	627.0	617.4	617.2
55°	575.7	568.4	568.2	559.7	559.7
57.5°	517.7	508.1	508.9	501.7	500.6
60°	477.6	467.2	468.0	461.6	460.5
62.5°	438.4	426.3	428.8	421.5	421.3
65°	373.1	364.8	365.6	362.5	362.5
67.5°	310.4	302.7	308.3	305.7	305.5
70°	264.4	259.2	266.5	266.5	265.4
72.5°	221.7	221.5	230.7	230.7	231.3
75°	161.0	168.3	178.0	179.1	179.1
77.5°	107.5	120.4	131.1	131.5	131.3
80°	76.8	91.3	101.3	103.4	102.3
82.5°	52.0	67.4	75.7	77.8	76.8
85°	23.5	36.0	42.6	43.7	42.6
87.5°	6.8	14.3	17.1	17.0	15.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	11.1	58.7	136.3	39.7	29.9
95°	36.0	143.0	642.5	222.4	137.1
97.5°	66.2	167.5	989.5	708.1	485.2
100°	87.2	182.0	1064.8	1078.6	830.8
102.5°	110.5	197.7	1048.2	1380.6	1164.3
105°	146.8	222.6	962.4	1699.9	1616.0
107.5°	183.6	251.6	862.1	1789.9	1864.7
110°	209.1	272.7	804.5	1755.5	1923.4

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	233.5	293.8	765.7	1674.0	1913.4
115°	272.8	329.7	729.7	1545.9	1815.4
117.5°	307.4	360.8	708.4	1405.9	1691.3
120°	335.1	379.8	706.2	1325.8	1599.3
122.5°	357.3	401.9	700.7	1255.6	1509.6
125°	385.0	426.9	696.5	1155.8	1381.9
127.5°	415.1	454.4	694.3	1096.2	1282.5
130°	430.6	469.9	691.0	1054.7	1217.2
132.5°	447.3	485.4	691.0	1022.3	1171.7
135°	470.8	510.1	688.2	976.3	1103.6
137.5°	493.0	531.1	687.9	937.5	1047.4
140°	509.6	548.8	686.8	905.2	1010.8
142.5°	528.4	561.2	690.1	879.5	974.3
145°	555.3	583.7	693.7	845.0	920.8
147.5°	578.3	605.9	699.8	810.2	875.7
150°	598.2	617.2	702.0	798.6	844.7
152.5°	613.7	633.7	704.3	783.1	825.8
155°	634.2	649.1	710.4	763.7	794.8
157.5°	659.7	668.6	711.7	754.9	777.1
160°	673.0	679.7	717.3	748.2	767.1
162.5°	680.7	688.6	718.4	742.5	757.2
165°	700.7	703.4	718.7	734.1	745.0
167.5°	714.2	711.8	725.0	732.1	736.4
170°	718.7	717.3	722.8	724.3	729.7
172.5°	728.6	724.0	726.1	722.1	726.4
175°	733.9	729.8	727.0	722.7	717.3
177.5°	736.1	729.6	726.1	721.7	722.8
180°	728.4	728.4	728.4	728.4	728.4

(END OF REPORT)