

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: P561640

Luminaire Tested: **SQ4-PC3-100U-075D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561640  
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 (5700K)  
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 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

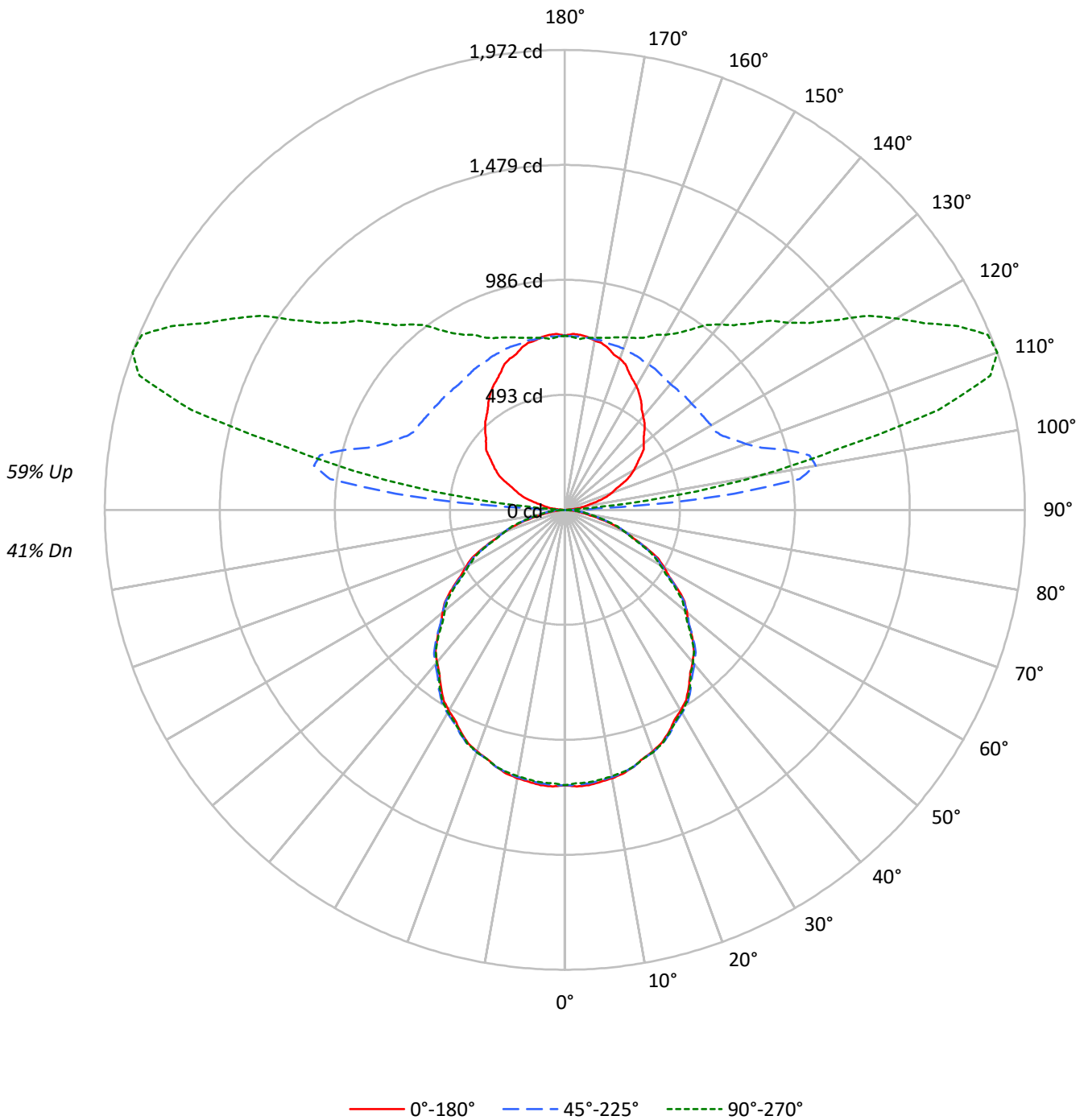
Lumens per Lamp: N/A  
Luminaire Lumens: 7861.8 lumens  
Efficiency: N/A  
Efficacy: 122.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 64.1  
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°	10892	10892	10892
5°	10975	10904	10864
10°	10948	10897	10867
15°	10891	10891	10880
20°	10819	10851	10851
25°	10716	10795	10761
30°	10586	10714	10668
35°	10429	10588	10515
40°	10257	10401	10296
45°	10070	10142	9984
50°	9806	9806	9650
55°	9495	9373	9231
60°	9036	8855	8715
65°	8353	8187	8115
70°	7313	7372	7343
75°	5885	6509	6548
80°	4181	5520	5574
85°	2551	4626	4626



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.7	1.4
10°-20°	320.6	4.1
20°-30°	485.6	6.2
30°-40°	582.1	7.4
40°-50°	593.6	7.6
50°-60°	518.2	6.6
60°-70°	371.0	4.7
70°-80°	191.1	2.4
80°-90°	48.3	0.6
90°-100°	340.3	4.3
100°-110°	968.4	12.3
110°-120°	927.8	11.8
120°-130°	734.4	9.3
130°-140°	589.4	7.5
140°-150°	461.5	5.9
150°-160°	337.6	4.3
160°-170°	209.1	2.7
170°-180°	71.0	0.9
0°-30°	918.0	11.7
0°-40°	1500.1	19.1
0°-60°	2611.9	33.2
0°-90°	3222.2	41.0
90°-120°	2236.6	28.4
90°-150°	4021.8	51.2
90°-180°	4640.0	59.0
0°-180°	7861.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1181	1181	1181	1181	1181	
5°	1185	1173	1177	1174	1173	112
15°	1140	1131	1140	1140	1139	321
25°	1053	1045	1060	1057	1057	484
35°	926	924	940	934	934	579
45°	772	770	777	767	765	594
55°	590	583	583	574	574	526
65°	383	374	375	372	372	378
75°	165	173	183	184	184	178
85°	24	37	44	45	44	33
90°	0	0	0	0	0	3
95°	37	147	659	228	141	42
105°	150	228	987	1743	1657	159
115°	280	338	748	1585	1862	275
125°	395	438	714	1185	1417	353
135°	483	523	706	1001	1132	373
145°	569	599	711	866	944	356
155°	650	666	728	783	815	301
165°	718	721	737	753	764	202
175°	753	748	746	741	736	71
180°	747	747	747	747	747	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1180.6	1180.6	1180.6	1180.6	1180.6
2.5°	1187.6	1177.4	1180.6	1177.9	1173.6
5°	1185.0	1173.3	1177.4	1174.1	1173.0
7.5°	1176.5	1164.7	1170.1	1167.9	1166.9
10°	1168.6	1156.9	1163.1	1160.9	1159.9
12.5°	1158.1	1147.2	1154.4	1152.2	1152.0
15°	1140.2	1130.6	1140.2	1140.2	1139.1
17.5°	1117.7	1108.9	1119.2	1119.8	1119.2
20°	1101.9	1092.3	1105.2	1104.1	1105.2
22.5°	1082.7	1074.8	1088.6	1085.8	1086.8
25°	1052.7	1045.3	1060.4	1057.1	1057.1
27.5°	1017.3	1012.0	1028.5	1025.0	1025.0
30°	993.7	988.4	1005.7	1001.4	1001.4
32.5°	967.5	963.8	980.4	975.1	975.1
35°	925.9	923.8	940.1	933.6	933.6
37.5°	883.1	881.1	896.0	888.0	885.5
40°	851.6	850.5	863.6	854.9	854.9
42.5°	820.1	819.0	830.4	819.9	819.9
45°	771.8	769.6	777.3	767.4	765.2
47.5°	719.1	717.0	721.7	711.0	709.9
50°	683.2	681.1	683.2	673.4	672.3
52.5°	646.5	642.7	643.0	633.2	633.0
55°	590.3	582.8	582.7	573.9	573.9
57.5°	530.8	521.0	521.9	514.4	513.4
60°	489.7	479.1	479.9	473.3	472.3
62.5°	449.5	437.1	439.7	432.2	432.0
65°	382.6	374.1	375.0	371.7	371.7
67.5°	318.3	310.4	316.1	313.5	313.3
70°	271.1	265.8	273.3	273.3	272.2
72.5°	227.4	227.2	236.6	236.6	237.2
75°	165.1	172.6	182.6	183.7	183.7
77.5°	110.2	123.4	134.5	134.9	134.7
80°	78.7	93.7	103.9	106.0	104.9
82.5°	53.3	69.2	77.6	79.8	78.7
85°	24.1	36.9	43.7	44.8	43.7
87.5°	7.0	14.7	17.5	17.5	15.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	11.4	60.2	139.7	40.7	30.7
95°	36.9	146.6	658.9	228.0	140.6
97.5°	67.9	171.7	1014.7	726.1	497.6
100°	89.5	186.6	1092.0	1106.1	852.0
102.5°	113.3	202.7	1074.9	1415.8	1193.9
105°	150.5	228.3	986.9	1743.2	1657.1
107.5°	188.3	258.0	884.1	1835.5	1912.1
110°	214.4	279.7	825.0	1800.2	1972.3

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	239.4	301.3	785.2	1716.7	1962.1
115°	279.7	338.0	748.3	1585.3	1861.6
117.5°	315.2	369.9	726.5	1441.7	1734.4
120°	343.6	389.5	724.2	1359.6	1640.1
122.5°	366.4	412.2	718.5	1287.6	1548.1
125°	394.8	437.8	714.2	1185.3	1417.1
127.5°	425.7	466.0	712.0	1124.1	1315.2
130°	441.6	481.9	708.6	1081.5	1248.2
132.5°	458.7	497.8	708.6	1048.3	1201.6
135°	482.8	523.1	705.7	1001.2	1131.7
137.5°	505.5	544.7	705.4	961.3	1074.1
140°	522.6	562.8	704.3	928.3	1036.6
142.5°	541.9	575.5	707.7	901.9	999.1
145°	569.4	598.6	711.4	866.5	944.3
147.5°	593.0	621.3	717.7	830.8	898.0
150°	613.4	632.9	719.9	819.0	866.2
152.5°	629.3	649.9	722.2	803.0	846.9
155°	650.3	665.6	728.4	783.1	815.1
157.5°	676.5	685.6	729.9	774.1	796.9
160°	690.1	697.1	735.5	767.2	786.7
162.5°	698.1	706.1	736.7	761.4	776.4
165°	718.5	721.3	737.0	752.8	763.9
167.5°	732.4	729.9	743.5	750.7	755.1
170°	737.0	735.6	741.2	742.8	748.3
172.5°	747.2	742.5	744.6	740.5	744.9
175°	752.6	748.4	745.5	741.1	735.5
177.5°	754.9	748.2	744.6	740.1	741.2
180°	746.9	746.9	746.9	746.9	746.9

(END OF REPORT)