

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: P562918

Luminaire Tested: **SQ4-PC3-100U-075D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562918  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-835-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

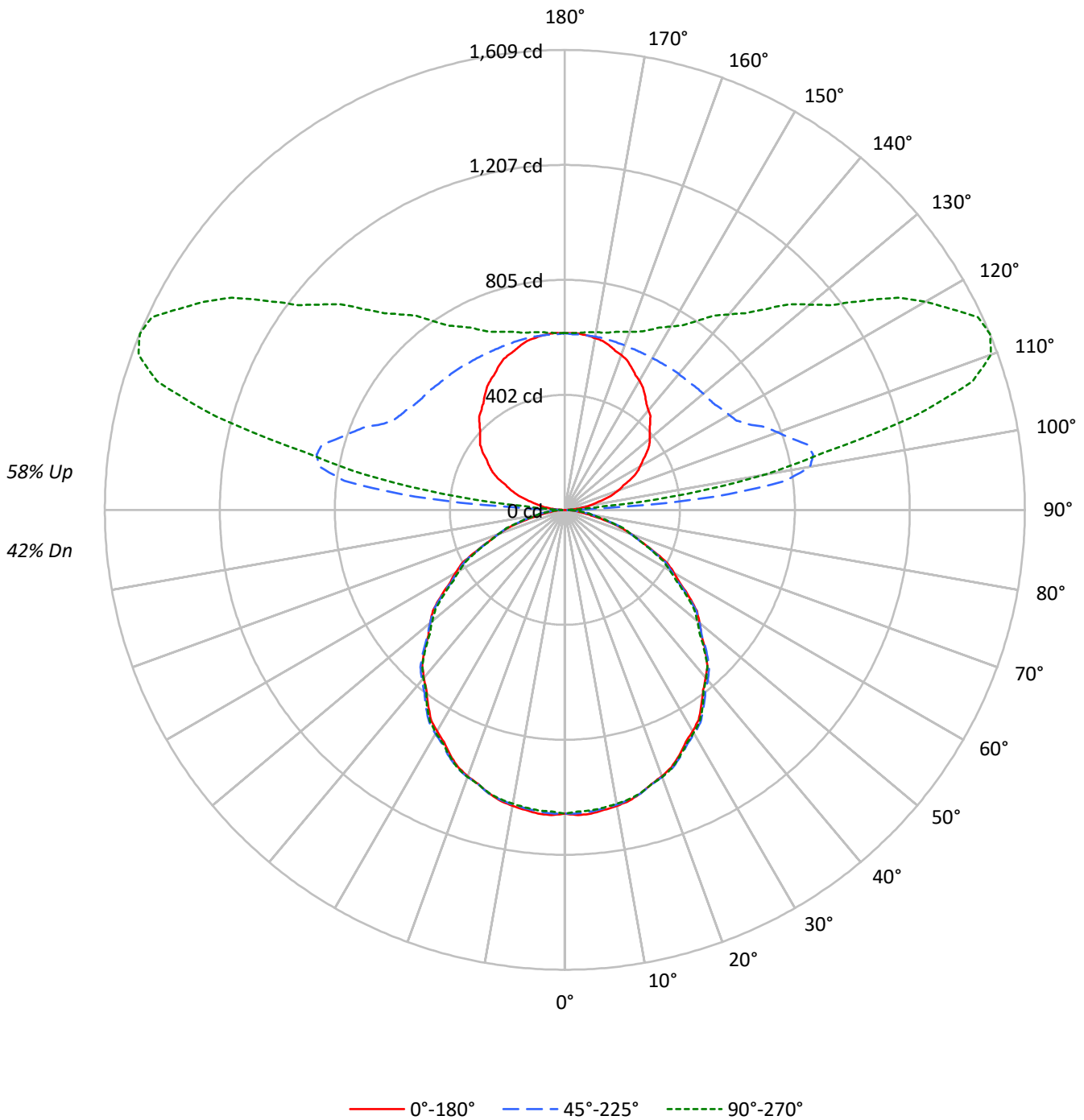
Lumens per Lamp: N/A  
Luminaire Lumens: 6918.1 lumens  
Efficiency: N/A  
Efficacy: 140.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 49.1  
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	79	79	79	63	63	63	49	49	49	42
1	96	92	88	85	87	84	81	78	69	67	65	56	54	53	43	42	41	35
2	87	80	74	69	80	73	68	64	61	57	54	49	46	44	38	36	35	30
3	80	70	63	57	72	64	58	53	53	49	45	43	40	37	34	31	30	25
4	73	62	54	48	66	57	50	45	47	42	38	38	35	32	30	27	25	22
5	67	55	47	41	61	51	44	39	42	37	33	34	30	27	27	24	22	19
6	61	50	42	36	56	46	39	33	38	33	29	31	27	24	24	22	19	16
7	57	45	37	31	52	41	34	29	34	29	25	28	24	21	22	19	17	14
8	53	40	33	28	48	37	31	26	31	26	22	26	22	19	20	18	15	13
9	49	37	29	24	45	34	27	23	29	23	20	24	20	17	19	16	14	12
10	46	34	27	22	42	31	25	20	26	21	18	22	18	15	17	15	13	11

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

	0°	45°	90°
0°	9806	9806	9806
5°	9879	9815	9779
10°	9856	9809	9782
15°	9804	9804	9794
20°	9739	9768	9768
25°	9648	9717	9687
30°	9530	9645	9603
35°	9388	9532	9466
40°	9233	9363	9268
45°	9064	9130	8987
50°	8827	8827	8687
55°	8548	8437	8310
60°	8136	7971	7844
65°	7519	7368	7305
70°	6582	6636	6609
75°	5297	5857	5893
80°	3767	4968	5021
85°	2287	4171	4171



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.6	1.5
10°-20°	288.6	4.2
20°-30°	437.1	6.3
30°-40°	524.0	7.6
40°-50°	534.3	7.7
50°-60°	466.4	6.7
60°-70°	333.9	4.8
70°-80°	172.0	2.5
80°-90°	44.8	0.6
90°-100°	289.5	4.2
100°-110°	799.1	11.6
110°-120°	824.2	11.9
120°-130°	662.3	9.6
130°-140°	520.5	7.5
140°-150°	399.2	5.8
150°-160°	286.9	4.1
160°-170°	175.5	2.5
170°-180°	59.2	0.9
0°-30°	826.3	11.9
0°-40°	1350.4	19.5
0°-60°	2351.1	34.0
0°-90°	2901.8	41.9
90°-120°	1912.8	27.6
90°-150°	3494.8	50.5
90°-180°	4016.0	58.1
0°-180°	6918.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1063	1063	1063	1063	1063	
5°	1067	1056	1060	1057	1056	101
15°	1026	1018	1026	1026	1025	289
25°	948	941	954	952	952	436
35°	834	832	846	840	840	521
45°	695	693	700	691	689	535
55°	531	525	524	517	517	474
65°	344	337	338	335	335	341
75°	149	155	164	165	165	161
85°	22	33	39	40	39	29
90°	2	4	8	9	10	4
95°	42	157	525	216	140	45
105°	142	220	879	1342	1264	152
115°	255	308	708	1402	1594	251
125°	350	398	642	1086	1275	312
135°	421	467	624	880	992	326
145°	489	522	616	749	806	306
155°	551	569	611	672	693	254
165°	596	604	614	638	643	168
175°	618	619	615	624	622	59
180°	618	618	618	618	618	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1062.8	1062.8	1062.8	1062.8	1062.8
2.5°	1069.1	1059.8	1062.8	1060.3	1056.5
5°	1066.7	1056.1	1059.8	1056.9	1055.9
7.5°	1059.0	1048.5	1053.3	1051.4	1050.4
10°	1052.0	1041.4	1047.0	1045.1	1044.1
12.5°	1042.5	1032.7	1039.2	1037.2	1037.0
15°	1026.4	1017.7	1026.4	1026.4	1025.4
17.5°	1006.1	998.2	1007.5	1008.1	1007.5
20°	991.9	983.3	994.9	993.9	994.9
22.5°	974.6	967.5	979.9	977.4	978.4
25°	947.7	940.9	954.5	951.6	951.6
27.5°	915.8	911.0	925.8	922.7	922.7
30°	894.5	889.7	905.3	901.4	901.4
32.5°	870.9	867.6	882.5	877.8	877.8
35°	833.5	831.6	846.3	840.4	840.4
37.5°	794.9	793.2	806.5	799.4	797.1
40°	766.6	765.6	777.4	769.5	769.5
42.5°	738.2	737.3	747.5	738.0	738.0
45°	694.7	692.8	699.7	690.8	688.8
47.5°	647.3	645.4	649.7	640.0	639.0
50°	615.0	613.1	615.0	606.2	605.2
52.5°	582.0	578.5	578.8	570.0	569.8
55°	531.4	524.7	524.5	516.6	516.6
57.5°	477.9	469.0	469.8	463.1	462.1
60°	440.9	431.2	432.0	426.1	425.1
62.5°	404.6	393.5	395.8	389.1	388.9
65°	344.4	336.7	337.5	334.6	334.6
67.5°	286.6	279.4	284.6	282.2	282.0
70°	244.0	239.2	246.0	246.0	245.0
72.5°	204.7	204.5	213.0	213.0	213.5
75°	148.6	155.3	164.3	165.3	165.3
77.5°	99.2	111.1	121.0	121.4	121.2
80°	70.9	84.3	93.5	95.4	94.5
82.5°	48.0	62.3	69.9	71.8	70.9
85°	21.6	33.2	39.4	40.3	39.4
87.5°	6.7	14.0	17.3	17.5	16.1
90°	2.0	3.9	7.9	8.9	9.9
92.5°	17.8	73.9	132.1	48.2	37.6
95°	42.5	156.6	525.2	215.9	140.4
97.5°	70.4	175.4	778.0	599.0	433.8
100°	91.0	186.7	871.3	877.5	713.1
102.5°	110.8	199.5	889.5	1084.2	928.3
105°	142.4	219.8	879.2	1342.3	1264.0
107.5°	176.0	244.9	830.2	1466.8	1495.4
110°	199.8	261.7	792.2	1493.5	1586.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	221.1	280.7	756.6	1472.4	1609.3
115°	255.2	308.4	708.1	1401.9	1594.3
117.5°	284.8	337.8	676.3	1302.6	1521.5
120°	304.6	356.8	663.6	1235.3	1455.8
122.5°	323.6	373.5	653.3	1172.6	1381.5
125°	350.1	398.5	641.9	1086.3	1274.8
127.5°	372.7	421.0	635.1	1013.3	1175.9
130°	387.7	436.0	632.0	968.6	1116.6
132.5°	401.9	448.0	628.8	931.1	1065.2
135°	421.3	466.8	624.1	879.8	992.0
137.5°	443.1	484.5	621.7	836.7	932.4
140°	454.9	495.6	620.1	808.0	892.1
142.5°	468.4	505.9	618.5	782.4	856.5
145°	488.6	522.4	616.2	749.0	806.0
147.5°	508.0	537.5	614.0	720.8	765.1
150°	522.2	546.4	613.2	704.0	739.8
152.5°	533.3	555.9	612.4	689.6	719.2
155°	550.9	569.3	611.2	672.0	693.3
157.5°	567.1	581.2	611.4	659.2	673.7
160°	576.6	589.2	612.2	652.0	662.6
162.5°	584.5	595.5	613.0	645.6	653.9
165°	596.4	604.1	614.2	638.0	642.9
167.5°	605.5	610.1	615.2	633.4	634.9
170°	610.2	614.1	615.2	631.0	631.0
172.5°	614.2	616.5	615.2	627.8	627.0
175°	618.1	619.1	615.2	624.0	622.1
177.5°	619.7	618.9	615.0	620.5	618.9
180°	618.1	618.1	618.1	618.1	618.1

(END OF REPORT)