

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: P562930

Luminaire Tested: **SQ4-PC3-100U-075D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562930  
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-935-1D-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, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

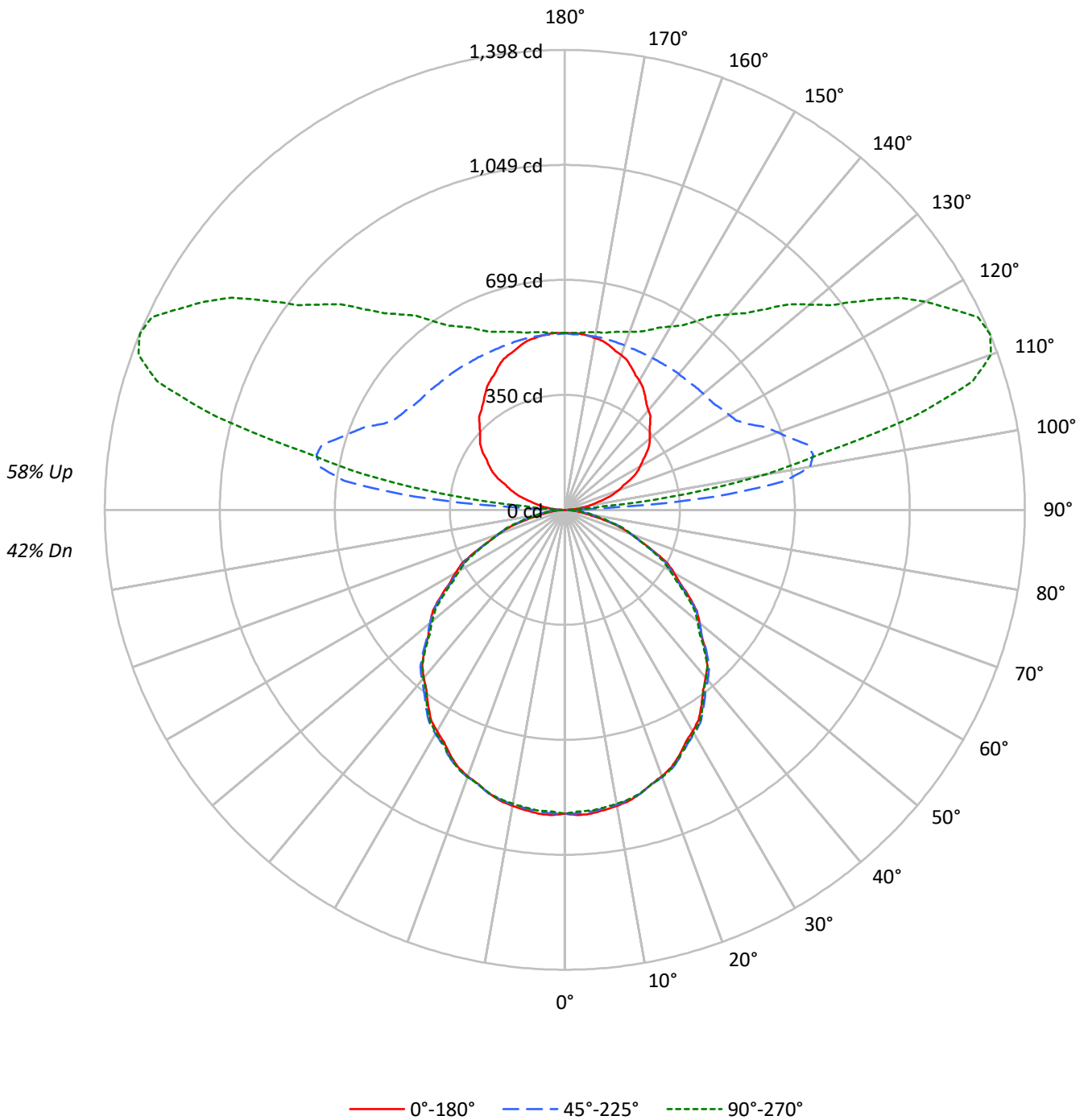
Lumens per Lamp: N/A  
Luminaire Lumens: 6011.1 lumens  
Efficiency: N/A  
Efficacy: 122.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

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°	8519	8519	8519
5°	8584	8529	8497
10°	8563	8523	8499
15°	8518	8518	8511
20°	8462	8487	8487
25°	8382	8443	8417
30°	8280	8380	8344
35°	8157	8282	8224
40°	8022	8136	8053
45°	7877	7932	7809
50°	7670	7670	7548
55°	7427	7330	7221
60°	7069	6927	6816
65°	6534	6403	6346
70°	5722	5767	5743
75°	4602	5090	5119
80°	3273	4314	4362
85°	1990	3620	3620



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.4	1.5
10°-20°	250.8	4.2
20°-30°	379.8	6.3
30°-40°	455.3	7.6
40°-50°	464.3	7.7
50°-60°	405.3	6.7
60°-70°	290.2	4.8
70°-80°	149.4	2.5
80°-90°	38.9	0.6
90°-100°	251.5	4.2
100°-110°	694.4	11.6
110°-120°	716.1	11.9
120°-130°	575.5	9.6
130°-140°	452.3	7.5
140°-150°	346.9	5.8
150°-160°	249.3	4.1
160°-170°	152.5	2.5
170°-180°	51.4	0.9
0°-30°	718.0	11.9
0°-40°	1173.3	19.5
0°-60°	2042.9	34.0
0°-90°	2521.4	41.9
90°-120°	1662.0	27.6
90°-150°	3036.6	50.5
90°-180°	3490.0	58.1
0°-180°	6011.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	923	923	923	923	923	
5°	927	918	921	918	918	88
15°	892	884	892	892	891	251
25°	823	818	829	827	827	379
35°	724	723	735	730	730	453
45°	604	602	608	600	598	465
55°	462	456	456	449	449	412
65°	299	293	293	291	291	296
75°	129	135	143	144	144	140
85°	19	29	34	35	34	26
90°	2	3	7	8	9	3
95°	37	136	456	188	122	40
105°	124	191	764	1166	1098	132
115°	222	268	615	1218	1385	218
125°	304	346	558	944	1108	271
135°	366	406	542	764	862	283
145°	424	454	535	651	700	266
155°	479	495	531	584	602	221
165°	518	525	534	554	559	146
175°	537	538	534	542	540	51
180°	537	537	537	537	537	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	923.4	923.4	923.4	923.4	923.4
2.5°	928.9	920.9	923.4	921.3	918.0
5°	926.9	917.7	920.9	918.3	917.5
7.5°	920.2	911.0	915.2	913.5	912.7
10°	914.0	904.8	909.8	908.0	907.2
12.5°	905.8	897.3	902.9	901.2	901.0
15°	891.8	884.3	891.8	891.8	891.0
17.5°	874.2	867.3	875.4	875.9	875.4
20°	861.9	854.4	864.4	863.6	864.4
22.5°	846.8	840.6	851.5	849.2	850.1
25°	823.4	817.6	829.4	826.8	826.8
27.5°	795.7	791.5	804.4	801.7	801.7
30°	777.2	773.1	786.6	783.2	783.2
32.5°	756.7	753.9	766.8	762.7	762.7
35°	724.2	722.6	735.3	730.2	730.2
37.5°	690.7	689.2	700.8	694.6	692.6
40°	666.1	665.2	675.5	668.6	668.6
42.5°	641.5	640.6	649.5	641.3	641.3
45°	603.7	602.0	607.9	600.2	598.5
47.5°	562.4	560.8	564.5	556.1	555.3
50°	534.4	532.7	534.4	526.7	525.9
52.5°	505.7	502.7	502.9	495.2	495.1
55°	461.7	455.9	455.7	448.9	448.9
57.5°	415.2	407.5	408.2	402.4	401.5
60°	383.1	374.7	375.4	370.2	369.4
62.5°	351.6	341.9	343.9	338.1	337.9
65°	299.3	292.6	293.3	290.7	290.7
67.5°	249.0	242.8	247.3	245.2	245.1
70°	212.1	207.9	213.8	213.7	212.9
72.5°	177.8	177.7	185.0	185.0	185.5
75°	129.1	135.0	142.8	143.6	143.6
77.5°	86.2	96.6	105.2	105.5	105.3
80°	61.6	73.3	81.2	82.9	82.1
82.5°	41.7	54.1	60.7	62.4	61.6
85°	18.8	28.8	34.2	35.0	34.2
87.5°	5.8	12.2	15.1	15.2	14.0
90°	1.7	3.4	6.9	7.8	8.6
92.5°	15.5	64.2	114.8	41.9	32.7
95°	37.0	136.1	456.3	187.6	122.0
97.5°	61.2	152.4	676.0	520.4	376.9
100°	79.1	162.2	757.1	762.4	619.6
102.5°	96.2	173.4	772.9	942.0	806.6
105°	123.7	191.0	764.0	1166.3	1098.2
107.5°	153.0	212.8	721.3	1274.5	1299.3
110°	173.6	227.4	688.3	1297.7	1378.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	192.2	243.9	657.4	1279.4	1398.3
115°	221.7	267.9	615.3	1218.1	1385.3
117.5°	247.5	293.5	587.6	1131.8	1322.0
120°	264.7	310.1	576.6	1073.4	1265.0
122.5°	281.2	324.5	567.7	1018.8	1200.3
125°	304.2	346.2	557.7	943.9	1107.7
127.5°	323.8	365.8	551.9	880.4	1021.8
130°	336.9	378.9	549.1	841.6	970.2
132.5°	349.2	389.2	546.4	809.1	925.5
135°	366.1	405.6	542.2	764.5	861.9
137.5°	385.0	421.0	540.2	727.0	810.2
140°	395.3	430.6	538.8	702.0	775.1
142.5°	407.0	439.6	537.4	679.8	744.2
145°	424.5	453.9	535.4	650.8	700.4
147.5°	441.4	467.1	533.5	626.3	664.8
150°	453.7	474.7	532.8	611.7	642.8
152.5°	463.4	483.0	532.1	599.2	624.9
155°	478.7	494.6	531.1	583.9	602.4
157.5°	492.8	505.0	531.2	572.8	585.4
160°	501.0	511.9	531.9	566.5	575.8
162.5°	507.9	517.5	532.6	561.0	568.2
165°	518.2	524.9	533.7	554.4	558.6
167.5°	526.1	530.1	534.5	550.4	551.7
170°	530.2	533.6	534.5	548.3	548.3
172.5°	533.7	535.7	534.5	545.5	544.8
175°	537.1	537.9	534.5	542.2	540.5
177.5°	538.5	537.8	534.3	539.1	537.8
180°	537.1	537.1	537.1	537.1	537.1

(END OF REPORT)