

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: P563426

Luminaire Tested: **SQ4-PP3-075U-100D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563426  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-075U-100D-840-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

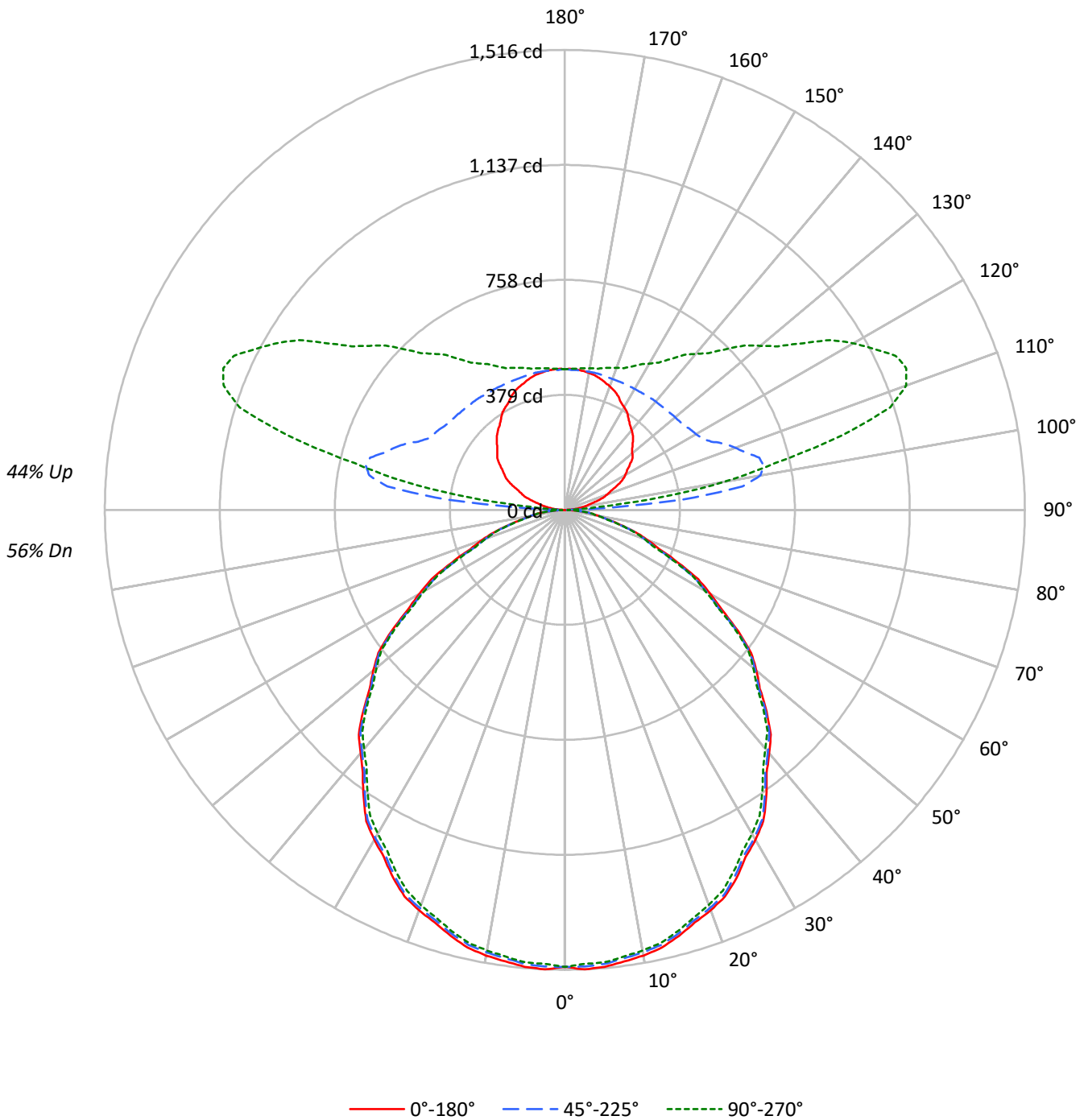
Lumens per Lamp: N/A  
Luminaire Lumens: 6881.0 lumens  
Efficiency: N/A  
Efficacy: 134.1 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 51.3  
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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56
1	99	95	91	88	92	89	85	82	76	74	72	65	63	62	55	54	53	48
2	91	83	77	72	84	78	72	68	67	63	60	58	55	52	49	46	45	40
3	83	73	66	60	77	69	62	57	59	54	50	51	47	44	43	40	38	34
4	76	65	57	51	70	61	54	48	53	47	43	46	41	38	39	36	33	30
5	70	58	50	44	65	54	47	42	47	42	37	41	36	33	35	31	29	26
6	64	52	44	38	60	49	42	36	43	37	33	37	32	29	32	28	25	23
7	59	47	39	33	55	44	37	32	39	33	29	34	29	26	29	25	23	20
8	55	43	35	30	51	40	33	28	35	30	26	31	26	23	27	23	20	18
9	51	39	32	26	48	37	30	25	32	27	23	28	24	21	24	21	18	16
10	48	36	29	24	45	34	27	23	30	24	21	26	22	19	23	19	17	15

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

	0°	45°	90°
0°	13899	13899	13899
5°	14001	13916	13867
10°	13978	13879	13818
15°	13885	13810	13734
20°	13794	13716	13612
25°	13630	13535	13401
30°	13378	13307	13138
35°	13027	12938	12775
40°	12611	12532	12388
45°	12266	12180	12060
50°	11826	11750	11636
55°	11215	11065	10980
60°	10208	9916	9868
65°	8994	8619	8591
70°	7764	7445	7445
75°	6684	6591	6495
80°	5892	5961	5823
85°	4615	5028	5028



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.5	2.1
10°-20°	406.8	5.9
20°-30°	609.3	8.9
30°-40°	714.6	10.4
40°-50°	716.9	10.4
50°-60°	611.6	8.9
60°-70°	398.8	5.8
70°-80°	200.1	2.9
80°-90°	56.5	0.8
90°-100°	218.9	3.2
100°-110°	602.3	8.8
110°-120°	621.7	9.0
120°-130°	498.1	7.2
130°-140°	391.2	5.7
140°-150°	299.8	4.4
150°-160°	215.6	3.1
160°-170°	131.8	1.9
170°-180°	44.4	0.6
0°-30°	1158.5	16.8
0°-40°	1873.2	27.2
0°-60°	3201.6	46.5
0°-90°	3857.1	56.1
90°-120°	1442.9	21.0
90°-150°	2632.1	38.3
90°-180°	3024.0	43.9
0°-180°	6881.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1506	1506	1506	1506	1506	
5°	1512	1498	1503	1497	1497	144
15°	1454	1440	1446	1440	1438	410
25°	1339	1323	1330	1318	1316	616
35°	1157	1145	1149	1136	1134	723
45°	940	934	934	924	924	724
55°	697	695	688	684	683	620
65°	412	404	395	392	394	411
75°	188	188	185	184	182	203
85°	44	47	48	48	48	51
90°	1	4	7	9	9	4
95°	33	120	387	166	106	34
105°	108	166	664	1011	943	113
115°	191	232	532	1060	1203	188
125°	263	299	483	817	957	234
135°	317	352	469	661	748	245
145°	366	392	462	563	606	230
155°	415	428	459	506	520	191
165°	448	454	461	480	483	126
175°	464	465	462	468	467	44
180°	464	464	464	464	464	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1506.5	1506.5	1506.5	1506.5	1506.5
2.5°	1516.0	1503.7	1506.5	1504.3	1498.1
5°	1511.8	1497.6	1502.6	1497.3	1497.3
7.5°	1501.5	1486.0	1491.0	1485.7	1485.4
10°	1492.0	1476.5	1481.5	1476.1	1474.9
12.5°	1478.3	1462.8	1468.8	1462.4	1462.2
15°	1453.7	1439.5	1445.8	1440.5	1437.9
17.5°	1426.0	1410.5	1418.1	1410.7	1409.6
20°	1404.9	1389.4	1397.0	1386.4	1386.4
22.5°	1379.5	1364.0	1372.7	1358.9	1358.9
25°	1338.9	1323.4	1329.6	1317.7	1316.4
27.5°	1290.5	1275.3	1281.8	1268.3	1268.1
30°	1255.7	1241.5	1249.1	1234.5	1233.2
32.5°	1217.6	1204.5	1210.0	1195.4	1194.1
35°	1156.6	1145.0	1148.7	1135.5	1134.2
37.5°	1092.5	1080.6	1084.8	1073.4	1072.9
40°	1047.1	1039.3	1040.5	1031.2	1028.6
42.5°	1004.8	996.0	997.1	987.9	987.4
45°	940.1	933.6	933.5	924.3	924.3
47.5°	871.4	866.5	865.1	857.4	857.2
50°	823.9	820.0	818.6	812.0	810.7
52.5°	774.3	772.5	767.9	762.4	762.1
55°	697.2	694.6	687.9	683.9	682.6
57.5°	613.4	608.3	600.8	595.0	596.0
60°	553.2	548.1	537.4	534.8	534.8
62.5°	495.1	488.9	478.2	474.6	476.7
65°	412.0	404.2	394.8	392.2	393.5
67.5°	336.4	329.5	319.3	319.2	318.2
70°	287.8	284.0	276.0	276.0	276.0
72.5°	244.5	242.7	236.9	236.9	235.8
75°	187.5	187.5	184.9	183.5	182.2
77.5°	140.5	141.0	139.7	138.3	136.0
80°	110.9	113.5	112.2	110.9	109.6
82.5°	83.4	86.0	85.8	83.4	83.2
85°	43.6	47.4	47.5	47.5	47.5
87.5°	11.8	16.5	18.3	18.7	19.7
90°	1.0	3.9	6.9	8.9	8.9
92.5°	13.6	58.2	100.9	38.8	31.8
95°	32.6	119.5	387.1	165.5	105.7
97.5°	53.1	132.5	590.8	455.2	321.2
100°	68.1	140.6	654.8	660.9	539.2
102.5°	82.4	150.2	671.4	819.9	708.3
105°	107.6	165.6	663.7	1010.8	943.2
107.5°	131.7	184.7	625.9	1104.2	1124.3
110°	149.1	197.4	597.5	1127.4	1197.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	164.9	211.7	569.1	1112.5	1218.3
115°	190.6	232.1	532.3	1060.0	1202.9
117.5°	215.1	253.3	509.0	986.3	1148.0
120°	230.1	266.8	498.7	931.2	1098.2
122.5°	243.5	280.2	491.6	882.8	1041.3
125°	262.7	299.4	482.9	817.0	957.0
127.5°	280.9	315.8	477.2	762.1	884.9
130°	290.4	326.1	474.1	729.4	841.4
132.5°	301.4	337.1	471.7	700.7	801.9
135°	317.0	351.8	469.1	660.7	747.6
137.5°	331.6	363.9	466.9	628.4	700.0
140°	342.7	372.6	466.1	606.9	671.6
142.5°	352.2	379.8	464.6	587.7	643.1
145°	366.4	391.5	462.2	562.9	606.4
147.5°	381.6	403.2	461.0	541.0	575.8
150°	391.1	410.4	460.2	529.0	556.0
152.5°	399.8	417.6	459.4	518.6	541.0
155°	414.8	428.3	459.2	506.0	520.5
157.5°	425.7	436.7	459.2	495.6	505.7
160°	433.6	442.2	459.2	490.0	497.8
162.5°	439.9	447.0	460.0	485.3	491.4
165°	448.4	454.2	461.2	480.0	482.9
167.5°	454.3	458.7	462.2	475.6	476.4
170°	458.2	461.1	462.2	474.1	474.1
172.5°	461.4	462.8	462.2	471.7	470.9
175°	464.2	465.1	462.2	468.1	467.1
177.5°	465.0	465.0	461.8	466.5	465.0
180°	464.2	464.2	464.2	464.2	464.2

(END OF REPORT)