

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: P563210

Luminaire Tested: **SQ4-PP3-025U-075D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563210  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PP3-025U-075D-840-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

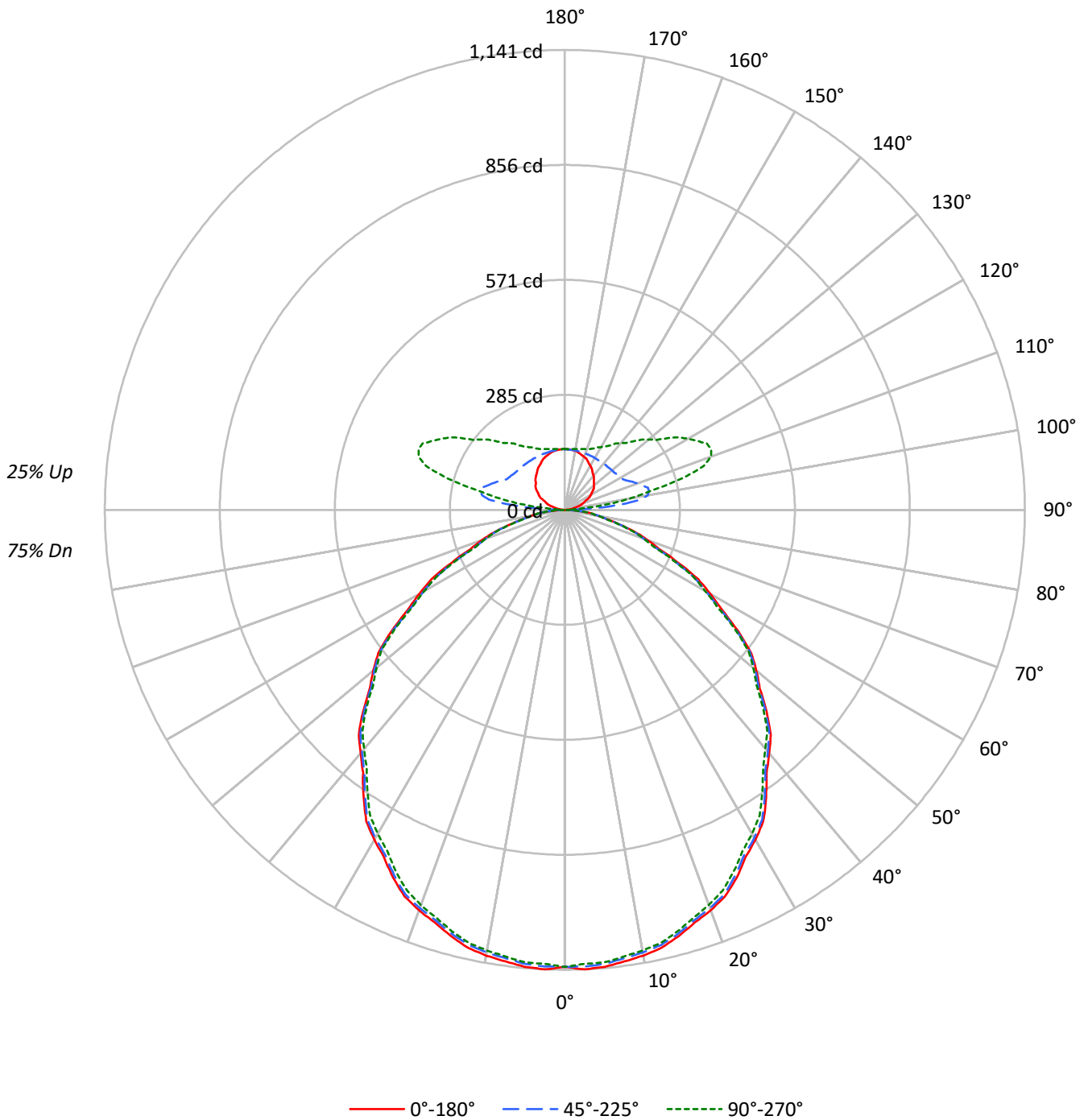
Lumens per Lamp: N/A  
Luminaire Lumens: 3878.5 lumens  
Efficiency: N/A  
Efficacy: 129.7 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 29.9  
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	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79	75
1	104	99	95	92	98	95	91	88	86	83	81	78	76	74	70	69	67	64
2	95	87	81	76	90	83	77	73	76	71	67	69	65	62	62	60	57	54
3	87	77	69	63	82	73	67	61	67	61	57	61	57	53	55	52	49	46
4	79	68	60	54	75	65	58	52	60	54	49	54	49	45	50	46	42	39
5	73	61	53	46	69	58	51	45	54	47	42	49	44	40	45	40	37	34
6	67	55	46	40	64	53	45	39	48	42	37	44	39	35	41	36	33	30
7	62	50	41	36	59	48	40	35	44	37	33	40	35	31	37	33	29	27
8	58	45	37	32	55	44	36	31	40	34	29	37	32	28	34	29	26	24
9	54	41	34	28	51	40	33	28	37	31	26	34	29	25	32	27	24	22
10	51	38	31	26	48	37	30	25	34	28	24	32	26	23	29	25	21	20

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

	0°	45°	90°
0°	10461	10461	10461
5°	10538	10474	10437
10°	10520	10446	10399
15°	10450	10393	10337
20°	10381	10323	10244
25°	10257	10187	10085
30°	10068	10015	9888
35°	9805	9737	9614
40°	9491	9432	9323
45°	9231	9167	9076
50°	8901	8843	8757
55°	8440	8327	8265
60°	7684	7462	7427
65°	6768	6486	6464
70°	5843	5603	5603
75°	5030	4959	4887
80°	4436	4490	4383
85°	3472	3790	3790



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.2	2.8
10°-20°	306.1	7.9
20°-30°	458.5	11.8
30°-40°	537.9	13.9
40°-50°	539.5	13.9
50°-60°	460.3	11.9
60°-70°	300.2	7.7
70°-80°	150.6	3.9
80°-90°	42.5	1.1
90°-100°	73.4	1.9
100°-110°	192.9	5.0
110°-120°	200.0	5.2
120°-130°	160.4	4.1
130°-140°	125.9	3.2
140°-150°	96.6	2.5
150°-160°	69.6	1.8
160°-170°	42.6	1.1
170°-180°	14.4	0.4
0°-30°	871.9	22.5
0°-40°	1409.8	36.3
0°-60°	2409.6	62.1
0°-90°	2902.8	74.8
90°-120°	466.2	12.0
90°-150°	849.1	21.9
90°-180°	976.0	25.2
0°-180°	3878.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1134	1134	1134	1134	1134	
5°	1138	1127	1131	1127	1127	108
15°	1094	1083	1088	1084	1082	309
25°	1008	996	1001	992	991	463
35°	870	862	864	855	854	544
45°	708	703	703	696	696	545
55°	525	523	518	515	514	466
65°	310	304	297	295	296	309
75°	141	141	139	138	137	153
85°	33	36	36	36	36	39
90°	1	3	8	4	4	2
95°	10	38	126	65	44	11
105°	35	53	213	324	302	37
115°	62	75	171	341	389	61
125°	86	96	155	263	310	76
135°	102	113	150	212	240	79
145°	119	126	149	181	195	74
155°	134	138	149	163	168	62
165°	145	147	149	154	156	41
175°	150	150	150	152	152	14
180°	150	150	150	150	150	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1133.8	1133.8	1133.8	1133.8	1133.8
2.5°	1141.0	1131.7	1133.8	1132.1	1127.5
5°	1137.8	1127.1	1130.9	1126.9	1126.9
7.5°	1130.1	1118.4	1122.1	1118.1	1117.9
10°	1122.9	1111.3	1115.0	1111.0	1110.0
12.5°	1112.6	1100.9	1105.4	1100.6	1100.5
15°	1094.1	1083.4	1088.1	1084.1	1082.2
17.5°	1073.2	1061.6	1067.3	1061.7	1060.9
20°	1057.3	1045.7	1051.4	1043.4	1043.4
22.5°	1038.2	1026.6	1033.1	1022.7	1022.7
25°	1007.6	996.0	1000.7	991.7	990.7
27.5°	971.3	959.8	964.7	954.6	954.4
30°	945.0	934.3	940.1	929.1	928.1
32.5°	916.4	906.5	910.7	899.7	898.7
35°	870.5	861.8	864.5	854.6	853.6
37.5°	822.2	813.3	816.4	807.9	807.5
40°	788.0	782.2	783.1	776.1	774.1
42.5°	756.2	749.6	750.5	743.5	743.1
45°	707.5	702.7	702.6	695.6	695.6
47.5°	655.9	652.2	651.1	645.3	645.1
50°	620.1	617.2	616.1	611.1	610.1
52.5°	582.7	581.4	578.0	573.8	573.6
55°	524.7	522.7	517.7	514.7	513.8
57.5°	461.7	457.8	452.1	447.8	448.6
60°	416.4	412.5	404.4	402.5	402.5
62.5°	372.6	368.0	359.9	357.2	358.7
65°	310.0	304.2	297.1	295.2	296.1
67.5°	253.2	248.0	240.3	240.3	239.5
70°	216.6	213.7	207.7	207.7	207.7
72.5°	184.0	182.7	178.3	178.3	177.5
75°	141.1	141.1	139.1	138.1	137.1
77.5°	105.7	106.1	105.1	104.1	102.4
80°	83.5	85.4	84.5	83.5	82.5
82.5°	62.8	64.7	64.6	62.8	62.6
85°	32.8	35.7	35.8	35.8	35.8
87.5°	8.9	12.4	14.3	13.5	14.3
90°	1.0	2.9	7.7	3.9	3.9
92.5°	4.1	19.5	43.2	19.1	12.4
95°	9.6	38.0	126.4	65.1	44.4
97.5°	16.8	41.7	189.1	150.4	110.8
100°	22.2	44.8	208.4	211.2	164.0
102.5°	26.8	48.0	213.8	263.1	222.7
105°	34.7	52.7	213.2	323.7	302.0
107.5°	42.8	59.4	201.1	355.2	360.5
110°	48.2	63.3	191.1	363.3	386.0

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	53.6	68.0	181.8	358.2	392.9
115°	61.8	75.0	170.8	340.7	388.9
117.5°	69.7	81.7	163.3	316.5	369.9
120°	74.3	85.6	160.2	300.3	352.2
122.5°	78.9	90.3	157.9	284.1	335.2
125°	85.9	96.3	155.3	262.6	309.7
127.5°	91.5	102.0	153.2	245.2	285.0
130°	94.6	105.9	152.5	234.3	271.1
132.5°	97.6	109.0	151.7	225.0	258.0
135°	102.3	112.7	150.5	212.0	240.3
137.5°	107.1	117.3	150.3	202.2	225.4
140°	111.0	120.4	149.6	194.4	216.1
142.5°	114.1	122.7	149.6	189.0	207.6
145°	118.7	126.2	148.6	180.8	194.9
147.5°	123.3	130.7	148.6	173.9	185.6
150°	126.4	133.0	148.6	170.0	179.5
152.5°	129.5	134.6	148.6	166.9	174.1
155°	134.1	137.9	148.6	163.2	167.9
157.5°	137.6	141.2	148.6	159.9	163.3
160°	139.9	142.7	148.6	158.3	160.2
162.5°	142.2	144.3	148.6	156.7	158.6
165°	144.7	146.6	148.6	154.4	156.3
167.5°	147.1	148.0	149.6	153.4	154.2
170°	148.6	149.5	149.6	153.4	153.4
172.5°	149.4	149.6	149.6	152.6	151.9
175°	150.5	150.5	149.6	151.5	151.5
177.5°	150.5	150.5	149.8	151.3	150.5
180°	150.5	150.5	150.5	150.5	150.5

(END OF REPORT)