

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: P563261

Luminaire Tested: **SQ4-PP3-025U-125D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563261  
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-125D-930-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13937.7 lumens  
Efficiency: N/A  
Efficacy: 89.2 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Direct

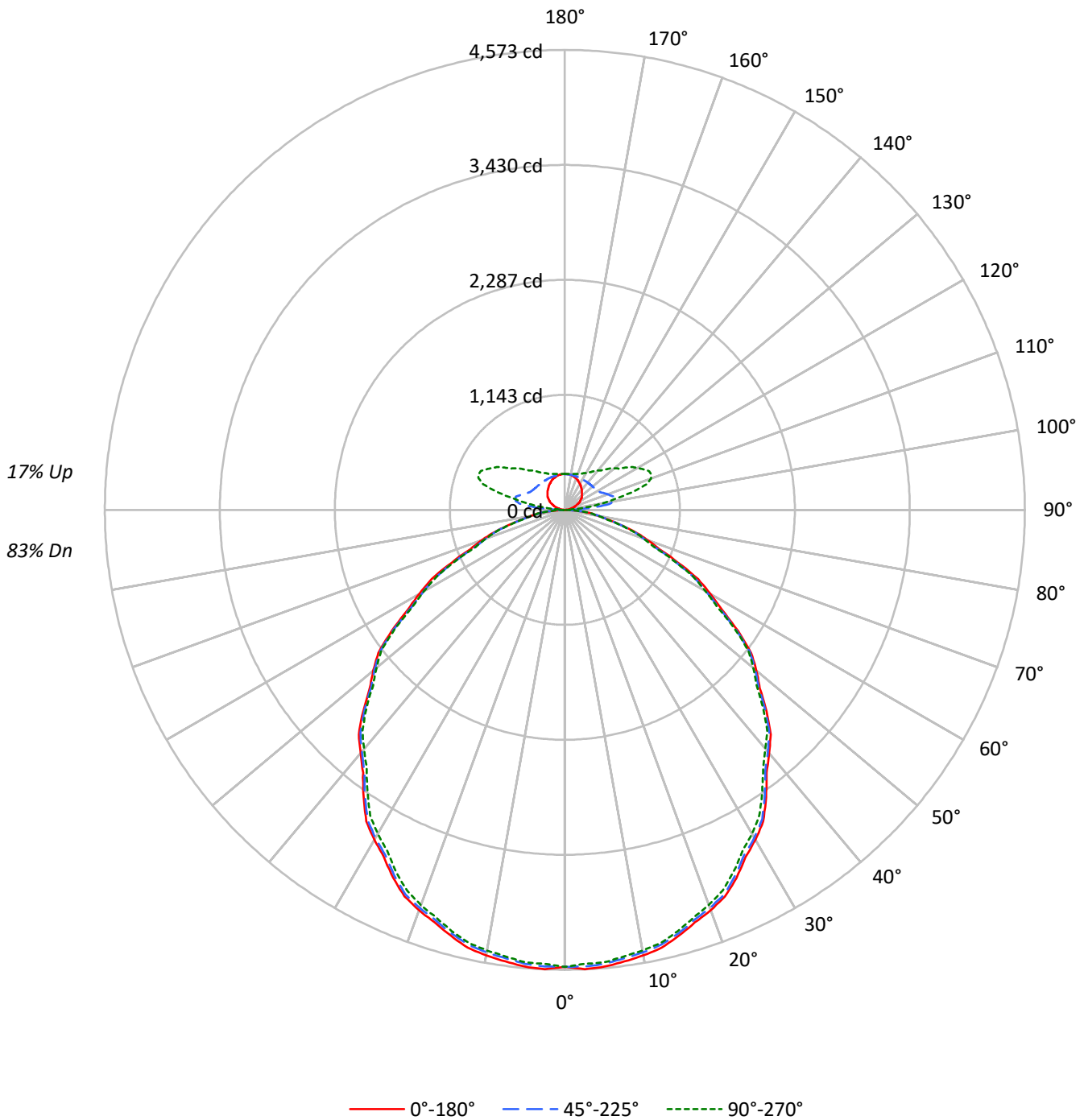
Input Watts (W): 156.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	83
1	106	101	97	94	101	97	94	91	90	87	85	84	81	79	77	76	74	71
2	96	89	82	77	92	86	80	75	79	75	71	74	70	67	68	66	63	60
3	88	78	71	65	84	76	69	63	70	65	60	65	61	57	61	57	54	51
4	81	70	61	55	77	67	60	54	63	56	51	58	53	49	55	50	47	44
5	74	62	54	48	71	60	52	47	56	50	45	53	47	43	49	45	41	38
6	69	56	48	42	66	54	46	41	51	44	39	48	42	37	45	40	36	34
7	64	51	43	37	61	49	42	36	46	40	35	44	38	33	41	36	32	30
8	59	46	38	33	57	45	37	32	42	36	31	40	34	30	38	33	29	27
9	55	43	35	29	53	41	34	29	39	32	28	37	31	27	35	30	26	24
10	52	39	32	27	50	38	31	26	36	30	25	34	28	24	32	27	24	22

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

	0°	45°	90°
0°	13974	13974	13974
5°	14077	13991	13942
10°	14053	13953	13891
15°	13960	13884	13808
20°	13868	13790	13685
25°	13703	13608	13473
30°	13449	13378	13209
35°	13097	13008	12843
40°	12678	12598	12455
45°	12332	12246	12124
50°	11889	11813	11699
55°	11274	11125	11039
60°	10263	9969	9921
65°	9042	8665	8636
70°	7807	7484	7484
75°	6720	6624	6531
80°	5924	5995	5853
85°	4637	5060	5060



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	429.7	3.1
10°-20°	1226.9	8.8
20°-30°	1837.7	13.2
30°-40°	2155.5	15.5
40°-50°	2162.2	15.5
50°-60°	1844.5	13.2
60°-70°	1202.9	8.6
70°-80°	603.5	4.3
80°-90°	168.9	1.2
90°-100°	173.4	1.2
100°-110°	455.8	3.3
110°-120°	472.7	3.4
120°-130°	379.1	2.7
130°-140°	297.5	2.1
140°-150°	228.3	1.6
150°-160°	164.5	1.2
160°-170°	100.6	0.7
170°-180°	34.0	0.2
0°-30°	3494.2	25.1
0°-40°	5649.7	40.5
0°-60°	9656.4	69.3
0°-90°	11631.8	83.5
90°-120°	1101.9	7.9
90°-150°	2006.9	14.4
90°-180°	2306.0	16.5
0°-180°	13937.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4544	4544	4544	4544	4544	
5°	4560	4517	4532	4516	4516	433
15°	4385	4342	4361	4345	4337	1237
25°	4038	3991	4010	3974	3970	1857
35°	3489	3454	3465	3425	3421	2179
45°	2836	2816	2816	2788	2788	2183
55°	2103	2095	2075	2063	2059	1869
65°	1242	1219	1191	1183	1187	1240
75°	566	566	558	554	550	613
85°	131	143	143	143	143	154
90°	2	7	18	9	9	7
95°	23	90	299	154	105	25
105°	82	124	504	765	714	87
115°	146	177	404	805	919	144
125°	203	228	367	621	732	180
135°	242	266	356	501	568	187
145°	280	298	351	427	461	176
155°	317	326	351	386	397	146
165°	342	346	351	365	369	97
175°	356	356	354	358	358	34
180°	356	356	356	356	356	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4543.9	4543.9	4543.9	4543.9	4543.9
2.5°	4572.6	4535.2	4543.9	4537.1	4518.4
5°	4559.8	4517.0	4532.0	4516.0	4516.0
7.5°	4528.8	4482.1	4496.9	4481.0	4480.2
10°	4500.1	4453.4	4468.2	4452.2	4448.3
12.5°	4458.7	4412.0	4430.0	4410.9	4410.1
15°	4384.6	4341.8	4360.7	4344.6	4336.8
17.5°	4301.0	4254.3	4277.1	4254.7	4251.6
20°	4237.3	4190.5	4213.4	4181.5	4181.5
22.5°	4160.8	4114.1	4140.1	4098.7	4098.7
25°	4038.1	3991.4	4010.3	3974.3	3970.4
27.5°	3892.4	3846.4	3866.1	3825.5	3824.7
30°	3787.3	3744.4	3767.3	3723.5	3719.6
32.5°	3672.6	3632.8	3649.5	3605.6	3601.7
35°	3488.6	3453.5	3464.7	3424.8	3420.9
37.5°	3295.0	3259.2	3271.9	3237.7	3236.1
40°	3158.0	3134.7	3138.1	3110.1	3102.3
42.5°	3030.6	3004.1	3007.5	2979.6	2978.0
45°	2835.5	2816.0	2815.6	2787.7	2787.7
47.5°	2628.4	2613.6	2609.3	2586.1	2585.4
50°	2485.0	2473.3	2469.1	2449.1	2445.2
52.5°	2335.3	2329.8	2316.2	2299.4	2298.6
55°	2102.7	2094.9	2074.8	2062.8	2058.9
57.5°	1850.2	1834.6	1812.0	1794.5	1797.7
60°	1668.6	1653.0	1620.8	1612.9	1612.9
62.5°	1493.4	1474.7	1442.4	1431.4	1437.6
65°	1242.5	1219.1	1190.7	1182.9	1186.8
67.5°	1014.7	993.7	962.9	962.9	959.8
70°	868.2	856.5	832.3	832.3	832.3
72.5°	737.5	732.1	714.4	714.4	711.3
75°	565.5	565.5	557.5	553.5	549.6
77.5°	423.7	425.3	421.3	417.2	410.2
80°	334.5	342.3	338.5	334.4	330.5
82.5°	251.7	259.5	258.9	251.7	250.9
85°	131.4	143.1	143.4	143.4	143.4
87.5°	35.5	48.9	54.6	52.9	56.0
90°	2.3	6.7	18.2	9.1	9.1
92.5°	9.6	46.1	102.2	45.2	29.2
95°	22.8	89.7	298.7	154.0	104.9
97.5°	39.7	98.5	447.0	355.5	261.8
100°	52.5	106.0	492.6	499.2	387.7
102.5°	63.4	113.3	505.4	621.8	526.3
105°	82.1	124.5	504.0	765.1	713.8
107.5°	101.3	140.5	475.3	839.5	852.0
110°	114.0	149.7	451.5	858.7	912.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	126.8	160.7	429.7	846.6	928.6
115°	146.0	177.2	403.7	805.3	919.1
117.5°	164.7	193.2	385.9	748.1	874.4
120°	175.6	202.4	378.6	709.7	832.4
122.5°	186.5	213.3	373.1	671.4	792.3
125°	203.0	227.5	367.2	620.6	732.0
127.5°	216.2	241.2	362.1	579.6	673.7
130°	223.5	250.2	360.3	553.9	640.8
132.5°	230.8	257.5	358.5	531.8	609.8
135°	241.7	266.3	355.8	501.0	567.9
137.5°	253.1	277.2	355.3	477.9	532.7
140°	262.3	284.6	353.5	459.6	510.8
142.5°	269.6	290.1	353.5	446.6	490.8
145°	280.5	298.3	351.2	427.2	460.7
147.5°	291.5	308.8	351.2	411.1	438.8
150°	298.7	314.4	351.2	401.9	424.2
152.5°	306.0	318.1	351.2	394.5	411.4
155°	317.0	325.9	351.2	385.7	396.8
157.5°	325.2	333.7	351.2	377.8	385.9
160°	330.7	337.4	351.2	374.1	378.6
162.5°	336.1	341.1	351.2	370.5	374.9
165°	342.1	346.5	351.2	365.0	369.4
167.5°	347.6	349.8	353.5	362.6	364.4
170°	351.2	353.4	353.5	362.6	362.6
172.5°	353.0	353.5	353.5	360.7	359.0
175°	355.8	355.8	353.5	358.0	358.0
177.5°	355.8	355.8	353.9	357.5	355.8
180°	355.8	355.8	355.8	355.8	355.8

(END OF REPORT)