

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: P563272

Luminaire Tested: **SQ4-PP3-025U-125D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563272  
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-940-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

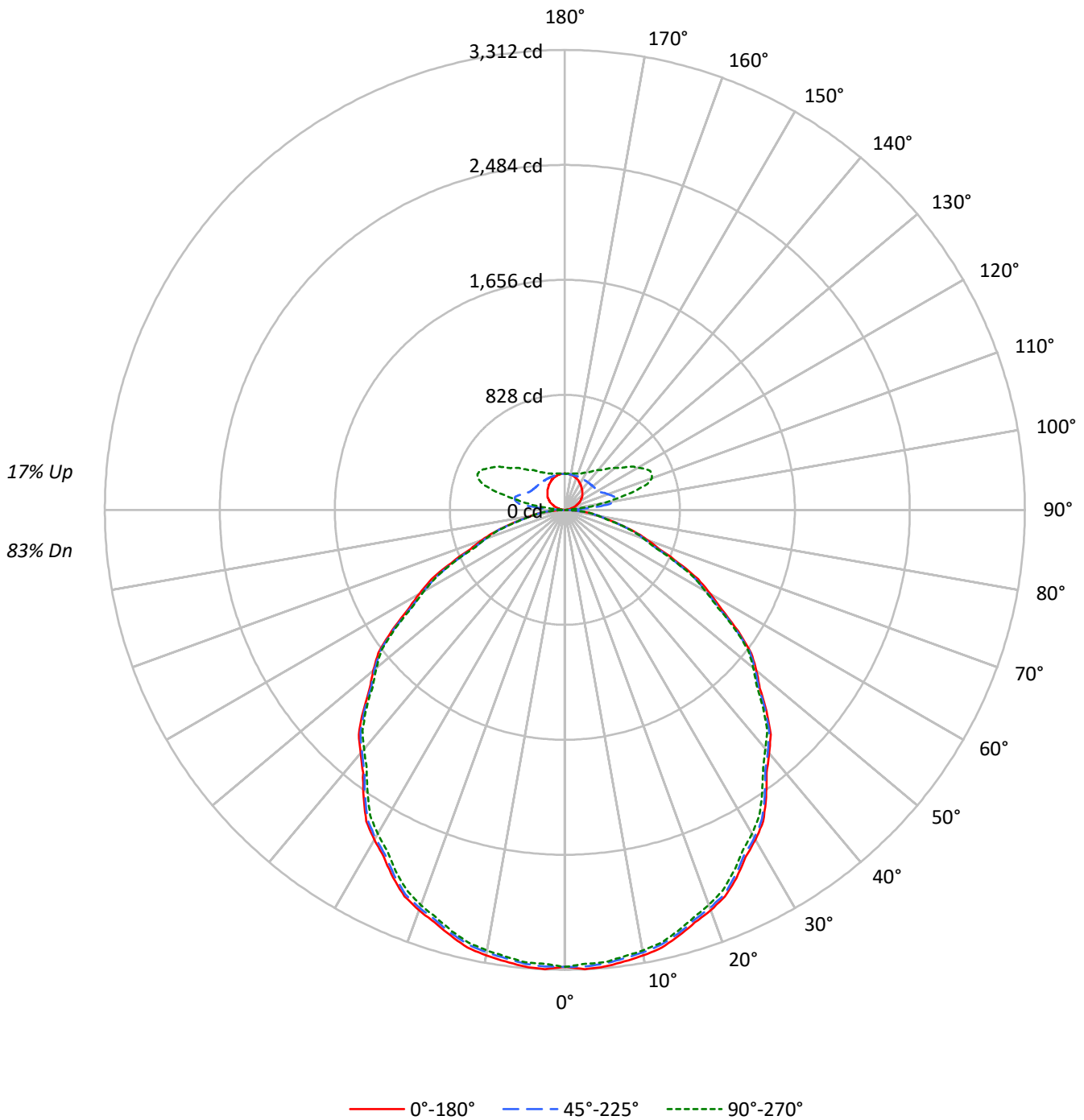
Lumens per Lamp: N/A  
Luminaire Lumens: 10111.2 lumens  
Efficiency: N/A  
Efficacy: 99.5 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 101.6  
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	110	110	110	110	102	102	102	94	94	94	87	87	87	83
1	106	101	97	94	101	97	94	91	90	87	85	83	81	79	77	76	74	71
2	96	89	82	77	92	86	80	75	79	75	71	74	70	67	68	65	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	54	50	46	44
5	74	62	54	48	71	60	52	47	56	50	45	53	47	43	49	44	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	43	38	33	41	36	32	30
8	59	46	38	33	57	45	37	32	42	36	31	40	34	30	38	32	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°	15181	15181	15181
5°	15292	15199	15146
10°	15267	15159	15091
15°	15166	15083	15000
20°	15065	14980	14867
25°	14886	14783	14637
30°	14611	14534	14350
35°	14229	14131	13952
40°	13773	13687	13530
45°	13398	13303	13172
50°	12917	12833	12709
55°	12248	12086	11992
60°	11150	10831	10777
65°	9823	9414	9382
70°	8481	8130	8130
75°	7301	7197	7094
80°	6437	6514	6360
85°	5039	5494	5494



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	311.2	3.1
10°-20°	888.5	8.8
20°-30°	1330.9	13.2
30°-40°	1561.1	15.4
40°-50°	1566.0	15.5
50°-60°	1335.9	13.2
60°-70°	871.2	8.6
70°-80°	437.1	4.3
80°-90°	122.4	1.2
90°-100°	126.8	1.3
100°-110°	333.5	3.3
110°-120°	345.8	3.4
120°-130°	277.3	2.7
130°-140°	217.6	2.2
140°-150°	167.0	1.7
150°-160°	120.3	1.2
160°-170°	73.6	0.7
170°-180°	24.9	0.2
0°-30°	2530.6	25.0
0°-40°	4091.7	40.5
0°-60°	6993.6	69.2
0°-90°	8424.3	83.3
90°-120°	806.1	8.0
90°-150°	1468.1	14.5
90°-180°	1687.0	16.7
0°-180°	10111.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3291	3291	3291	3291	3291	
5°	3302	3271	3282	3271	3271	314
15°	3176	3144	3158	3147	3141	896
25°	2925	2891	2904	2878	2876	1345
35°	2527	2501	2509	2480	2478	1578
45°	2054	2040	2039	2019	2019	1581
55°	1523	1517	1503	1494	1491	1353
65°	900	883	862	857	860	898
75°	410	410	404	401	398	444
85°	95	104	104	104	104	112
90°	2	5	13	7	7	5
95°	17	66	218	113	77	19
105°	60	91	369	560	522	64
115°	107	130	295	589	672	105
125°	148	166	269	454	536	132
135°	177	195	260	366	415	137
145°	205	218	257	312	337	129
155°	232	238	257	282	290	107
165°	250	254	257	267	270	71
175°	260	260	259	262	262	25
180°	260	260	260	260	260	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3290.9	3290.9	3290.9	3290.9	3290.9
2.5°	3311.7	3284.6	3290.9	3286.0	3272.4
5°	3302.4	3271.4	3282.2	3270.7	3270.7
7.5°	3279.9	3246.1	3256.9	3245.3	3244.8
10°	3259.2	3225.3	3236.1	3224.5	3221.7
12.5°	3229.2	3195.3	3208.4	3194.6	3194.0
15°	3175.5	3144.5	3158.2	3146.6	3140.9
17.5°	3115.0	3081.1	3097.7	3081.5	3079.2
20°	3068.8	3035.0	3051.5	3028.4	3028.4
22.5°	3013.4	2979.6	2998.4	2968.4	2968.4
25°	2924.6	2890.8	2904.4	2878.4	2875.6
27.5°	2819.0	2785.8	2800.0	2770.6	2770.0
30°	2742.9	2711.9	2728.5	2696.7	2693.9
32.5°	2659.8	2631.1	2643.1	2611.3	2608.5
35°	2526.6	2501.2	2509.3	2480.4	2477.5
37.5°	2386.4	2360.5	2369.7	2344.8	2343.7
40°	2287.2	2270.3	2272.8	2252.5	2246.8
42.5°	2194.9	2175.7	2178.2	2158.0	2156.8
45°	2053.6	2039.5	2039.1	2019.0	2019.0
47.5°	1903.6	1892.9	1889.7	1873.0	1872.4
50°	1799.8	1791.3	1788.2	1773.7	1770.9
52.5°	1691.3	1687.4	1677.5	1665.3	1664.8
55°	1522.9	1517.2	1502.7	1494.0	1491.1
57.5°	1340.0	1328.7	1312.3	1299.7	1301.9
60°	1208.5	1197.2	1173.9	1168.1	1168.1
62.5°	1081.6	1068.0	1044.7	1036.7	1041.2
65°	899.9	883.0	862.4	856.7	859.5
67.5°	734.9	719.7	697.4	697.4	695.1
70°	628.8	620.3	602.8	602.8	602.8
72.5°	534.2	530.2	517.4	517.4	515.1
75°	409.6	409.6	403.8	400.8	398.0
77.5°	306.9	308.0	305.2	302.2	297.1
80°	242.3	247.9	245.2	242.2	239.4
82.5°	182.3	187.9	187.5	182.3	181.7
85°	95.2	103.6	103.8	103.8	103.8
87.5°	25.7	35.4	39.6	38.3	40.6
90°	1.7	4.9	13.3	6.7	6.7
92.5°	7.0	33.8	74.7	33.1	21.4
95°	16.7	65.6	218.5	112.6	76.7
97.5°	29.0	72.1	327.0	260.0	191.5
100°	38.4	77.5	360.3	365.2	283.6
102.5°	46.4	82.9	369.7	454.9	385.0
105°	60.1	91.1	368.7	559.7	522.2
107.5°	74.1	102.8	347.7	614.1	623.3
110°	83.4	109.5	330.3	628.2	667.3

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	92.8	117.6	314.3	619.3	679.3
115°	106.8	129.6	295.3	589.1	672.3
117.5°	120.4	141.3	282.3	547.3	639.6
120°	128.5	148.0	276.9	519.2	608.9
122.5°	136.5	156.0	272.9	491.1	579.6
125°	148.5	166.4	268.6	454.0	535.5
127.5°	158.2	176.4	264.9	424.0	492.8
130°	163.5	183.1	263.6	405.2	468.8
132.5°	168.8	188.4	262.3	389.0	446.1
135°	176.8	194.8	260.3	366.5	415.4
137.5°	185.2	202.8	259.9	349.6	389.7
140°	191.9	208.2	258.6	336.2	373.7
142.5°	197.2	212.2	258.6	326.7	359.0
145°	205.2	218.2	256.9	312.5	337.0
147.5°	213.2	225.9	256.9	300.7	321.0
150°	218.5	230.0	256.9	294.0	310.3
152.5°	223.9	232.7	256.9	288.6	301.0
155°	231.9	238.4	256.9	282.1	290.3
157.5°	237.9	244.1	256.9	276.4	282.3
160°	241.9	246.8	256.9	273.7	276.9
162.5°	245.9	249.5	256.9	271.0	274.3
165°	250.2	253.5	256.9	267.0	270.3
167.5°	254.2	255.9	258.6	265.3	266.6
170°	256.9	258.5	258.6	265.3	265.3
172.5°	258.2	258.6	258.6	263.9	262.6
175°	260.3	260.3	258.6	261.9	261.9
177.5°	260.3	260.3	258.9	261.6	260.3
180°	260.3	260.3	260.3	260.3	260.3

(END OF REPORT)