

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: P563901

Luminaire Tested: **SQ4-PR1-025U-100D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563901  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PR1-025U-100D-835-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

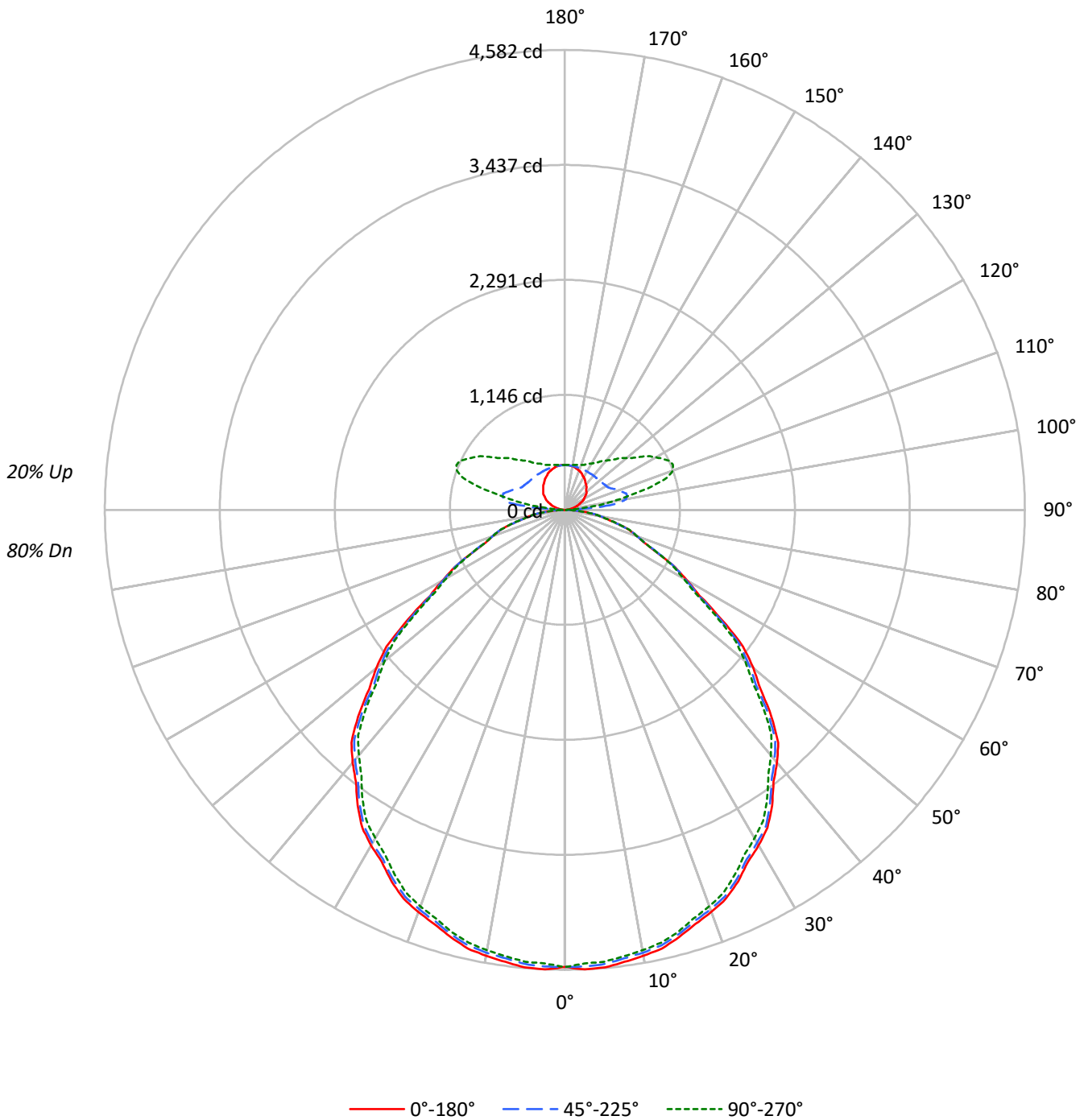
Lumens per Lamp: N/A  
Luminaire Lumens: 14284.9 lumens  
Efficiency: N/A  
Efficacy: 115.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 123.6  
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



TEST NUMBER: P563901  
CATALOG NUMBER: SQ4-PR1-025U-100D-835-1D-UNV-STD-W-12

### Luminous Intensity Polar Plot





TEST NUMBER: P563901

CATALOG NUMBER: SQ4-PR1-025U-100D-835-1D-UNV-STD-W-12

**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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	80
1	105	101	97	93	100	96	93	90	88	86	83	81	79	77	74	73	71	68
2	96	88	82	77	92	85	79	74	78	74	70	72	68	65	66	63	61	58
3	88	78	71	65	84	75	68	63	69	64	59	64	59	56	59	55	52	49
4	81	70	61	55	77	67	60	54	62	56	51	57	52	48	53	49	45	43
5	74	62	54	48	71	60	52	47	56	49	44	52	46	42	48	43	40	37
6	69	56	48	42	66	54	47	41	50	44	39	47	41	37	44	39	35	33
7	64	51	43	37	61	49	42	36	46	39	35	43	37	33	40	35	31	29
8	59	47	39	33	57	45	38	32	42	36	31	39	34	30	37	32	28	26
9	55	43	35	30	53	41	34	29	39	32	28	36	31	27	34	29	26	24
10	52	39	32	27	50	38	31	26	36	30	25	34	28	24	31	27	23	21

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

	0°	45°	90°
0°	14006	14006	14006
5°	14132	14023	13950
10°	14087	13989	13915
15°	14025	13938	13863
20°	13954	13865	13762
25°	13856	13763	13604
30°	13707	13609	13414
35°	13504	13387	13195
40°	13197	13055	12819
45°	12659	12437	12181
50°	11711	11429	11204
55°	10222	9990	9780
60°	8614	8541	8372
65°	7450	7479	7422
70°	6843	6878	6878
75°	6572	6572	6619
80°	6183	6252	6183
85°	4982	5536	5536



TEST NUMBER: P563901

CATALOG NUMBER: SQ4-PR1-025U-100D-835-1D-UNV-STD-W-12

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	430.7	3.0
10°-20°	1232.2	8.6
20°-30°	1858.5	13.0
30°-40°	2214.4	15.5
40°-50°	2183.2	15.3
50°-60°	1668.5	11.7
60°-70°	1032.5	7.2
70°-80°	586.5	4.1
80°-90°	180.8	1.3
90°-100°	217.9	1.5
100°-110°	572.8	4.0
110°-120°	594.0	4.2
120°-130°	476.5	3.3
130°-140°	373.8	2.6
140°-150°	286.9	2.0
150°-160°	206.7	1.4
160°-170°	126.4	0.9
170°-180°	42.7	0.3
0°-30°	3521.3	24.7
0°-40°	5735.7	40.2
0°-60°	9587.4	67.1
0°-90°	11387.2	79.7
90°-120°	1384.7	9.7
90°-150°	2521.9	17.7
90°-180°	2898.0	20.3
0°-180°	14284.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4554	4554	4554	4554	4554	
5°	4578	4528	4542	4526	4519	434
15°	4405	4359	4378	4362	4354	1243
25°	4083	4034	4056	4013	4009	1879
35°	3597	3555	3566	3518	3515	2245
45°	2910	2872	2860	2808	2801	2230
55°	1906	1876	1863	1832	1824	1708
65°	1024	1016	1028	1020	1020	1037
75°	553	553	553	557	557	584
85°	141	149	157	157	157	164
90°	3	8	23	12	12	8
95°	29	113	375	194	132	32
105°	103	156	633	962	897	109
115°	183	223	507	1012	1155	181
125°	255	286	461	780	920	226
135°	304	335	447	630	714	235
145°	352	375	441	537	579	221
155°	398	410	441	485	499	183
165°	430	436	441	459	464	121
175°	447	447	444	450	450	42
180°	447	447	447	447	447	

TEST NUMBER: P563901

CATALOG NUMBER: SQ4-PR1-025U-100D-835-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4554.1	4554.1	4554.1	4554.1	4554.1
2.5°	4582.3	4542.5	4554.1	4544.2	4522.7
5°	4577.6	4527.8	4542.3	4526.5	4518.8
7.5°	4542.3	4493.2	4507.8	4492.0	4487.4
10°	4511.0	4464.9	4479.6	4463.7	4456.0
12.5°	4476.4	4427.3	4445.1	4426.1	4418.4
15°	4405.0	4359.0	4377.6	4361.7	4354.1
17.5°	4326.6	4277.5	4296.0	4277.7	4267.8
20°	4263.8	4217.8	4236.4	4208.8	4205.0
22.5°	4194.8	4148.8	4167.3	4130.4	4129.7
25°	4083.4	4033.5	4055.9	4012.7	4008.9
27.5°	3950.8	3904.8	3923.4	3879.3	3874.7
30°	3859.8	3813.8	3832.4	3785.1	3777.4
32.5°	3756.3	3713.3	3728.8	3681.6	3677.0
35°	3597.0	3554.8	3565.6	3518.5	3514.6
37.5°	3415.8	3377.4	3383.6	3331.7	3327.9
40°	3287.1	3248.8	3251.8	3196.8	3193.0
42.5°	3145.9	3107.5	3104.3	3049.3	3045.5
45°	2910.5	2872.2	2859.6	2808.4	2800.7
47.5°	2642.2	2603.9	2580.3	2538.6	2533.2
50°	2447.7	2409.3	2388.8	2353.3	2341.8
52.5°	2237.4	2199.1	2181.7	2149.3	2137.8
55°	1906.4	1875.7	1863.2	1831.7	1824.0
57.5°	1591.8	1571.1	1567.5	1536.8	1533.7
60°	1400.4	1388.9	1388.6	1361.1	1361.1
62.5°	1237.2	1228.7	1234.8	1216.7	1213.6
65°	1023.8	1016.1	1027.7	1019.9	1019.9
67.5°	855.1	855.1	862.2	859.0	859.0
70°	761.0	761.0	764.9	764.9	764.9
72.5°	676.3	673.2	683.3	683.2	680.2
75°	553.1	553.1	553.1	557.0	557.0
77.5°	430.7	431.5	434.6	433.8	430.7
80°	349.1	352.9	353.0	349.1	349.1
82.5°	267.5	271.4	271.4	270.6	267.5
85°	141.2	148.9	156.9	156.9	156.9
87.5°	41.4	54.8	67.3	65.0	61.9
90°	2.9	8.5	22.9	11.5	11.5
92.5°	12.0	58.0	128.4	56.9	36.7
95°	28.7	112.7	375.4	193.5	131.8
97.5°	49.9	123.8	561.7	446.7	329.0
100°	65.9	133.2	619.0	627.3	487.2
102.5°	79.7	142.4	635.1	781.4	661.4
105°	103.2	156.4	633.4	961.5	897.0
107.5°	127.2	176.6	597.2	1055.0	1070.7
110°	143.3	188.1	567.4	1079.1	1146.3



TEST NUMBER: P563901

CATALOG NUMBER: SQ4-PR1-025U-100D-835-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	159.3	201.9	539.9	1063.9	1167.0
115°	183.4	222.6	507.3	1012.0	1154.9
117.5°	206.9	242.8	484.9	940.2	1098.8
120°	220.7	254.3	475.7	891.9	1046.0
122.5°	234.4	268.1	468.9	843.7	995.6
125°	255.1	285.9	461.4	779.8	919.9
127.5°	271.7	303.1	455.1	728.3	846.6
130°	280.9	314.5	452.8	696.0	805.3
132.5°	290.0	323.7	450.5	668.3	766.3
135°	303.8	334.6	447.1	629.5	713.6
137.5°	318.1	348.4	446.5	600.5	669.5
140°	329.6	357.6	444.2	577.5	642.0
142.5°	338.7	364.5	444.2	561.3	616.7
145°	352.5	374.9	441.3	536.9	578.9
147.5°	366.3	388.1	441.3	516.6	551.4
150°	375.4	395.0	441.3	505.0	533.1
152.5°	384.6	399.7	441.3	495.7	517.0
155°	398.4	409.6	441.3	484.6	498.7
157.5°	408.7	419.3	441.3	474.8	484.9
160°	415.5	424.0	441.3	470.1	475.7
162.5°	422.4	428.6	441.3	465.5	471.1
165°	429.9	435.5	441.3	458.7	464.3
167.5°	436.8	439.6	444.2	455.7	458.0
170°	441.3	444.1	444.2	455.7	455.7
172.5°	443.6	444.2	444.2	453.3	451.1
175°	447.1	447.1	444.2	449.9	449.9
177.5°	447.1	447.1	444.8	449.3	447.1
180°	447.1	447.1	447.1	447.1	447.1

(END OF REPORT)