

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: P563905

Luminaire Tested: **SQ4-PR1-025U-100D-840-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563905  
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-840-1D-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: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

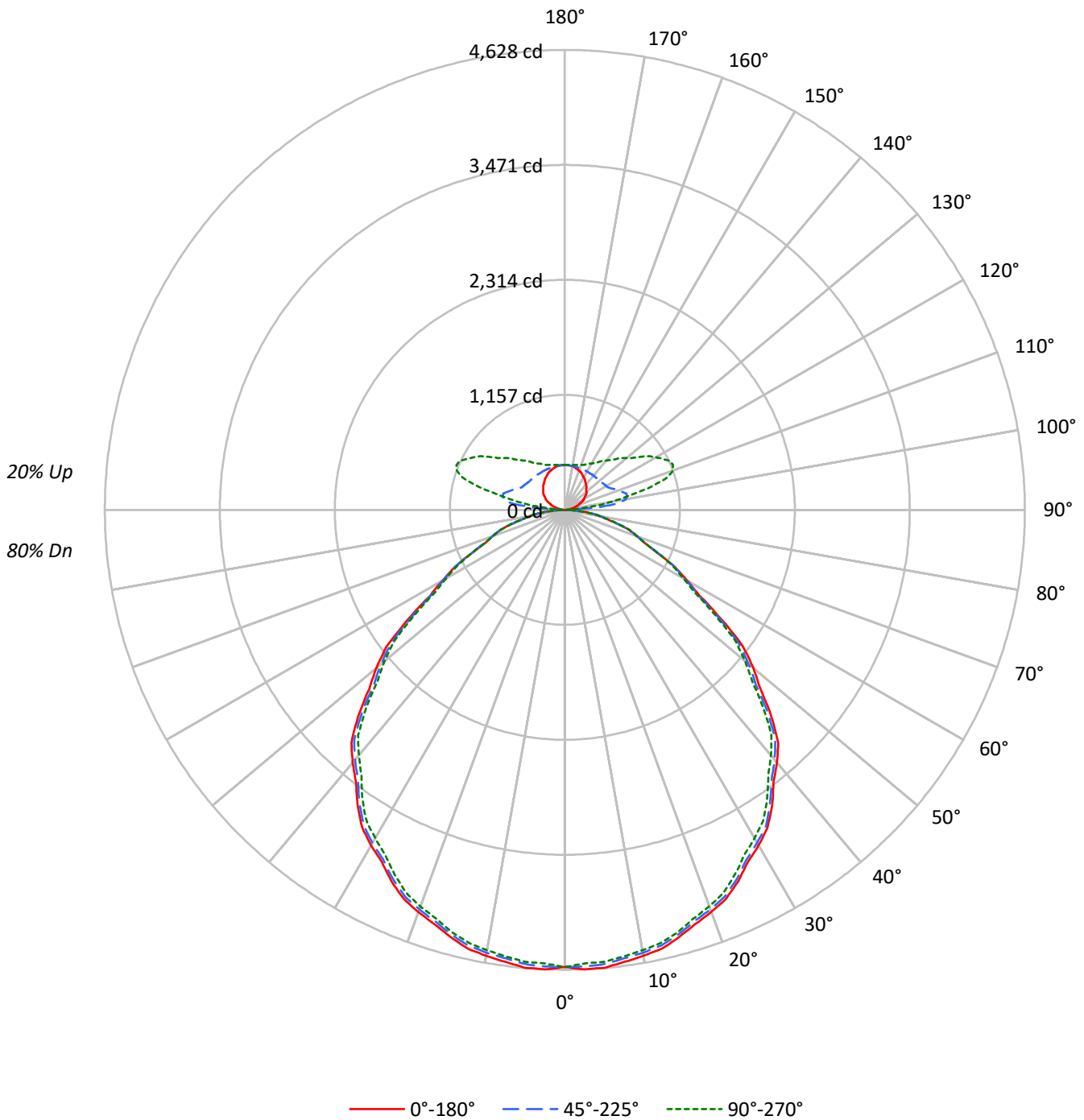
Lumens per Lamp: N/A  
Luminaire Lumens: 14428.7 lumens  
Efficiency: N/A  
Efficacy: 116.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Direct

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



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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	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°	14147	14147	14147
5°	14274	14164	14091
10°	14229	14130	14056
15°	14166	14078	14002
20°	14095	14004	13900
25°	13996	13902	13740
30°	13845	13746	13549
35°	13640	13521	13328
40°	13329	13186	12948
45°	12786	12562	12304
50°	11829	11544	11317
55°	10325	10091	9878
60°	8700	8627	8456
65°	7525	7554	7496
70°	6911	6947	6947
75°	6638	6638	6685
80°	6245	6316	6245
85°	5032	5593	5593



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	435.0	3.0
10°-20°	1244.6	8.6
20°-30°	1877.2	13.0
30°-40°	2236.7	15.5
40°-50°	2205.2	15.3
50°-60°	1685.3	11.7
60°-70°	1042.9	7.2
70°-80°	592.3	4.1
80°-90°	182.6	1.3
90°-100°	220.1	1.5
100°-110°	578.6	4.0
110°-120°	600.0	4.2
120°-130°	481.3	3.3
130°-140°	377.6	2.6
140°-150°	289.8	2.0
150°-160°	208.7	1.4
160°-170°	127.7	0.9
170°-180°	43.1	0.3
0°-30°	3556.7	24.7
0°-40°	5793.4	40.2
0°-60°	9683.9	67.1
0°-90°	11501.7	79.7
90°-120°	1398.7	9.7
90°-150°	2547.3	17.7
90°-180°	2927.0	20.3
0°-180°	14428.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4600	4600	4600	4600	4600	
5°	4624	4573	4588	4572	4564	439
15°	4449	4403	4422	4406	4398	1256
25°	4124	4074	4097	4053	4049	1898
35°	3633	3591	3602	3554	3550	2268
45°	2940	2901	2888	2837	2829	2252
55°	1926	1895	1882	1850	1842	1725
65°	1034	1026	1038	1030	1030	1047
75°	559	559	559	563	563	590
85°	143	150	158	158	158	166
90°	3	9	23	12	12	8
95°	29	114	379	195	133	32
105°	104	158	640	971	906	110
115°	185	225	512	1022	1167	183
125°	258	289	466	788	929	229
135°	307	338	452	636	721	237
145°	356	379	446	542	585	223
155°	402	414	446	490	504	185
165°	434	440	446	463	469	123
175°	452	452	449	454	454	43
180°	452	452	452	452	452	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4599.9	4599.9	4599.9	4599.9	4599.9
2.5°	4628.5	4588.2	4599.9	4589.9	4568.2
5°	4623.7	4573.3	4588.0	4572.0	4564.3
7.5°	4588.0	4538.5	4553.2	4537.2	4532.6
10°	4556.3	4509.9	4524.7	4508.6	4500.9
12.5°	4521.5	4471.9	4489.8	4470.6	4462.8
15°	4449.4	4402.9	4421.6	4405.6	4397.9
17.5°	4370.1	4320.5	4339.2	4320.8	4310.7
20°	4306.7	4260.3	4279.0	4251.2	4247.3
22.5°	4237.0	4190.5	4209.3	4172.0	4171.2
25°	4124.5	4074.1	4096.8	4053.1	4049.2
27.5°	3990.6	3944.1	3962.8	3918.4	3913.7
30°	3898.6	3852.2	3870.9	3823.2	3815.4
32.5°	3794.1	3750.7	3766.3	3718.7	3714.0
35°	3633.2	3590.6	3601.5	3553.9	3550.0
37.5°	3450.1	3411.4	3417.7	3365.3	3361.4
40°	3320.2	3281.5	3284.5	3229.0	3225.1
42.5°	3177.6	3138.8	3135.6	3080.0	3076.1
45°	2939.8	2901.1	2888.3	2836.6	2828.9
47.5°	2668.8	2630.1	2606.2	2564.1	2558.7
50°	2472.3	2433.6	2412.9	2377.0	2365.3
52.5°	2259.9	2221.2	2203.7	2170.9	2159.3
55°	1925.6	1894.6	1882.0	1850.1	1842.3
57.5°	1607.8	1586.9	1583.2	1552.3	1549.2
60°	1414.4	1402.8	1402.6	1374.8	1374.8
62.5°	1249.6	1241.1	1247.3	1229.0	1225.9
65°	1034.1	1026.3	1038.1	1030.1	1030.1
67.5°	863.7	863.7	870.9	867.7	867.7
70°	768.6	768.6	772.6	772.6	772.6
72.5°	683.1	680.0	690.2	690.1	687.0
75°	558.6	558.6	558.6	562.6	562.6
77.5°	435.0	435.8	439.0	438.1	435.0
80°	352.6	356.5	356.6	352.6	352.6
82.5°	270.2	274.1	274.2	273.3	270.2
85°	142.6	150.4	158.5	158.5	158.5
87.5°	41.8	55.3	68.0	65.6	62.5
90°	2.9	8.6	23.2	11.6	11.6
92.5°	12.2	58.6	129.7	57.4	37.1
95°	28.9	113.9	379.2	195.4	133.2
97.5°	50.4	125.1	567.4	451.2	332.3
100°	66.6	134.5	625.3	633.6	492.1
102.5°	80.5	143.9	641.5	789.2	668.1
105°	104.2	158.0	639.7	971.1	906.0
107.5°	128.5	178.3	603.3	1065.6	1081.5
110°	144.7	190.0	573.2	1090.0	1157.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	160.9	204.0	545.4	1074.6	1178.7
115°	185.3	224.9	512.4	1022.2	1166.6
117.5°	209.0	245.2	489.8	949.6	1109.8
120°	222.9	256.9	480.5	900.9	1056.6
122.5°	236.8	270.8	473.6	852.2	1005.6
125°	257.6	288.8	466.0	787.7	929.2
127.5°	274.4	306.1	459.7	735.7	855.1
130°	283.7	317.6	457.4	703.0	813.4
132.5°	292.9	326.9	455.0	675.0	774.0
135°	306.8	338.0	451.6	635.9	720.8
137.5°	321.3	351.9	451.0	606.6	676.2
140°	332.9	361.2	448.7	583.3	648.4
142.5°	342.2	368.2	448.7	566.9	622.9
145°	356.0	378.7	445.8	542.3	584.7
147.5°	369.9	392.0	445.8	521.8	556.9
150°	379.2	399.0	445.8	510.1	538.4
152.5°	388.5	403.8	445.8	500.7	522.2
155°	402.4	413.7	445.8	489.5	503.7
157.5°	412.8	423.5	445.8	479.6	489.8
160°	419.7	428.2	445.8	474.9	480.5
162.5°	426.7	432.9	445.8	470.2	475.9
165°	434.2	439.9	445.8	463.3	468.9
167.5°	441.2	444.0	448.7	460.3	462.6
170°	445.8	448.6	448.7	460.3	460.3
172.5°	448.1	448.7	448.7	457.9	455.6
175°	451.6	451.6	448.7	454.5	454.5
177.5°	451.6	451.6	449.3	453.8	451.6
180°	451.6	451.6	451.6	451.6	451.6

(END OF REPORT)