

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: P563521

Luminaire Tested: **SQ4-PP3-0U-100D-840-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563521  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-PP3-0U-100D-840-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

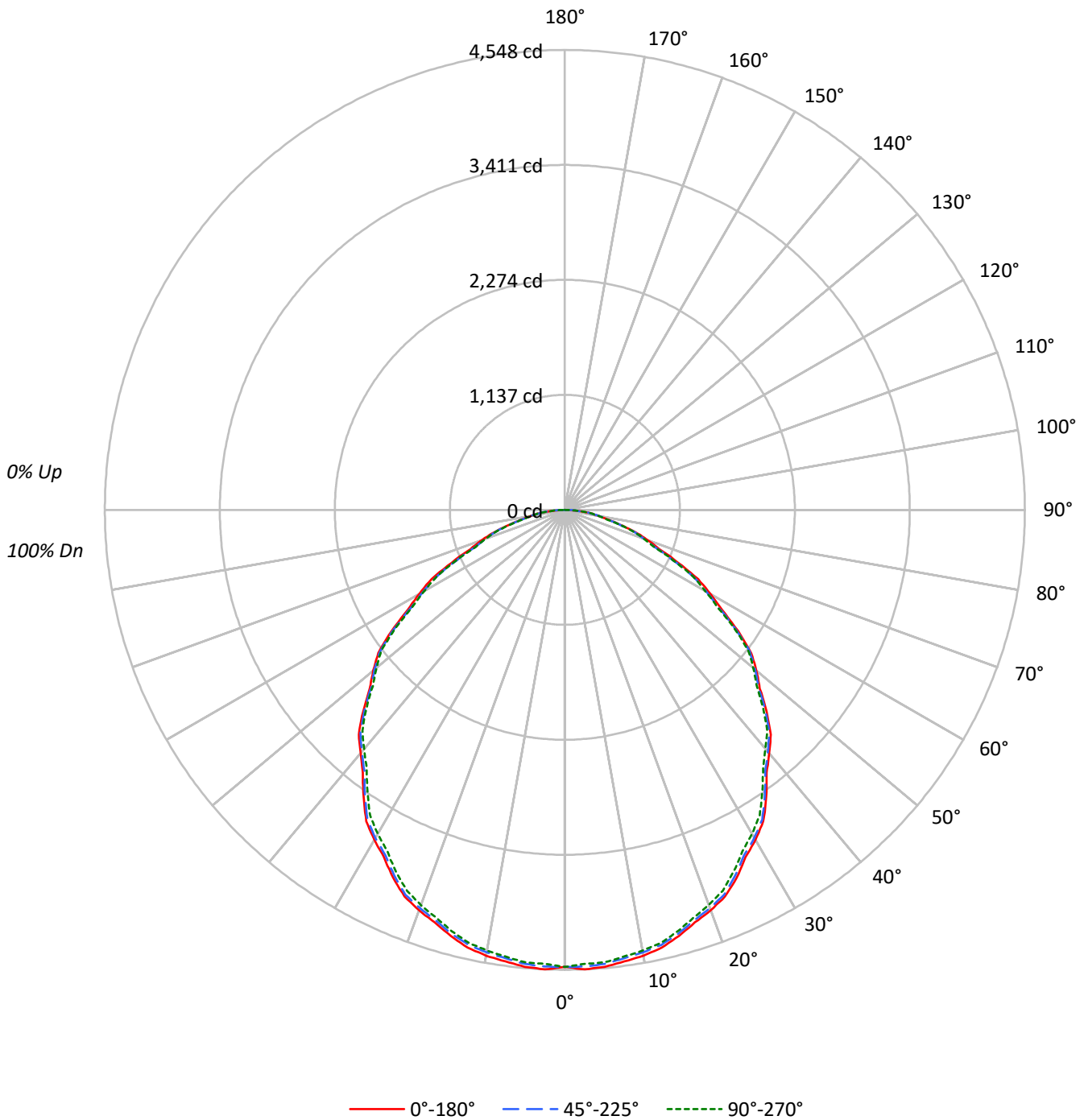
Lumens per Lamp: N/A  
Luminaire Lumens: 11567.8 lumens  
Efficiency: N/A  
Efficacy: 106.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Direct

Input Watts (W): 108.2  
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



TEST NUMBER: P563521  
CATALOG NUMBER: SQ4-PP3-0U-100D-840-1D-UNV-STD-W-12

### Luminous Intensity Polar Plot





TEST NUMBER: P563521

CATALOG NUMBER: SQ4-PP3-OU-100D-840-1D-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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85				85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72				72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61				61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53				53
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46				46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40				40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36				36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32				32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29				29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26				26

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

	0°	45°	90°
0°	13900	13900	13900
5°	14002	13916	13867
10°	13978	13879	13817
15°	13886	13810	13734
20°	13793	13716	13612
25°	13630	13535	13401
30°	13377	13307	13138
35°	13027	12938	12775
40°	12611	12531	12388
45°	12266	12180	12060
50°	11826	11750	11636
55°	11214	11065	10980
60°	10208	9916	9868
65°	8994	8619	8590
70°	7764	7444	7444
75°	6684	6590	6495
80°	5892	5963	5823
85°	4612	5032	5032



TEST NUMBER: P563521

CATALOG NUMBER: SQ4-PP3-OU-100D-840-1D-UNV-STD-W-12

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	427.4	3.7
10°-20°	1220.3	10.5
20°-30°	1827.8	15.8
30°-40°	2144.0	18.5
40°-50°	2150.7	18.6
50°-60°	1834.7	15.9
60°-70°	1196.5	10.3
70°-80°	600.3	5.2
80°-90°	166.1	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3475.5	30.0
0°-40°	5619.5	48.6
0°-60°	9604.8	83.0
0°-90°	11567.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11567.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4520	4520	4520	4520	4520	
5°	4536	4493	4508	4492	4492	431
15°	4361	4319	4337	4321	4314	1230
25°	4017	3970	3989	3953	3949	1847
35°	3470	3435	3446	3406	3403	2168
45°	2820	2801	2800	2773	2773	2172
55°	2092	2084	2064	2052	2048	1859
65°	1236	1213	1184	1176	1180	1233
75°	562	562	555	550	547	610
85°	131	142	143	143	143	158
90°	0	0	0	0	0	



TEST NUMBER: P563521

CATALOG NUMBER: SQ4-PP3-OU-100D-840-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4519.6	4519.6	4519.6	4519.6	4519.6
2.5°	4548.1	4511.0	4519.6	4512.9	4494.3
5°	4535.5	4492.9	4507.7	4491.9	4491.9
7.5°	4504.6	4458.1	4472.9	4457.0	4456.3
10°	4476.1	4429.6	4444.4	4428.4	4424.6
12.5°	4434.9	4388.4	4406.3	4387.3	4386.5
15°	4361.2	4318.6	4337.4	4321.4	4313.7
17.5°	4278.0	4231.5	4254.2	4232.0	4228.9
20°	4214.6	4168.1	4190.9	4159.2	4159.2
22.5°	4138.6	4092.1	4118.0	4076.8	4076.8
25°	4016.6	3970.1	3988.8	3953.1	3949.2
27.5°	3871.6	3825.9	3845.4	3805.0	3804.3
30°	3767.0	3724.4	3747.2	3703.6	3699.7
32.5°	3652.9	3613.4	3630.0	3586.3	3582.4
35°	3469.9	3435.1	3446.2	3406.5	3402.6
37.5°	3277.4	3241.8	3254.4	3220.3	3218.8
40°	3141.2	3117.9	3121.4	3093.5	3085.7
42.5°	3014.4	2988.1	2991.4	2963.7	2962.1
45°	2820.3	2800.9	2800.5	2772.8	2772.8
47.5°	2614.3	2599.6	2595.3	2572.3	2571.6
50°	2471.7	2460.1	2455.9	2436.0	2432.1
52.5°	2322.8	2317.4	2303.8	2287.1	2286.4
55°	2091.5	2083.7	2063.7	2051.8	2047.9
57.5°	1840.3	1824.8	1802.3	1784.9	1788.0
60°	1659.7	1644.2	1612.2	1604.3	1604.3
62.5°	1485.4	1466.8	1434.7	1423.8	1430.0
65°	1235.9	1212.6	1184.4	1176.5	1180.4
67.5°	1009.3	988.4	957.8	957.7	954.6
70°	863.5	851.9	827.9	827.9	827.9
72.5°	733.6	728.2	710.6	710.6	707.5
75°	562.5	562.5	554.6	550.5	546.6
77.5°	421.5	423.0	419.1	415.0	408.0
80°	332.7	340.5	336.7	332.6	328.8
82.5°	250.3	258.1	257.5	250.3	249.6
85°	130.7	142.3	142.6	142.6	142.6
87.5°	34.9	47.3	50.7	50.8	53.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)