

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: P563517

Luminaire Tested: **SQ4-PP3-0U-100D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563517
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-835-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

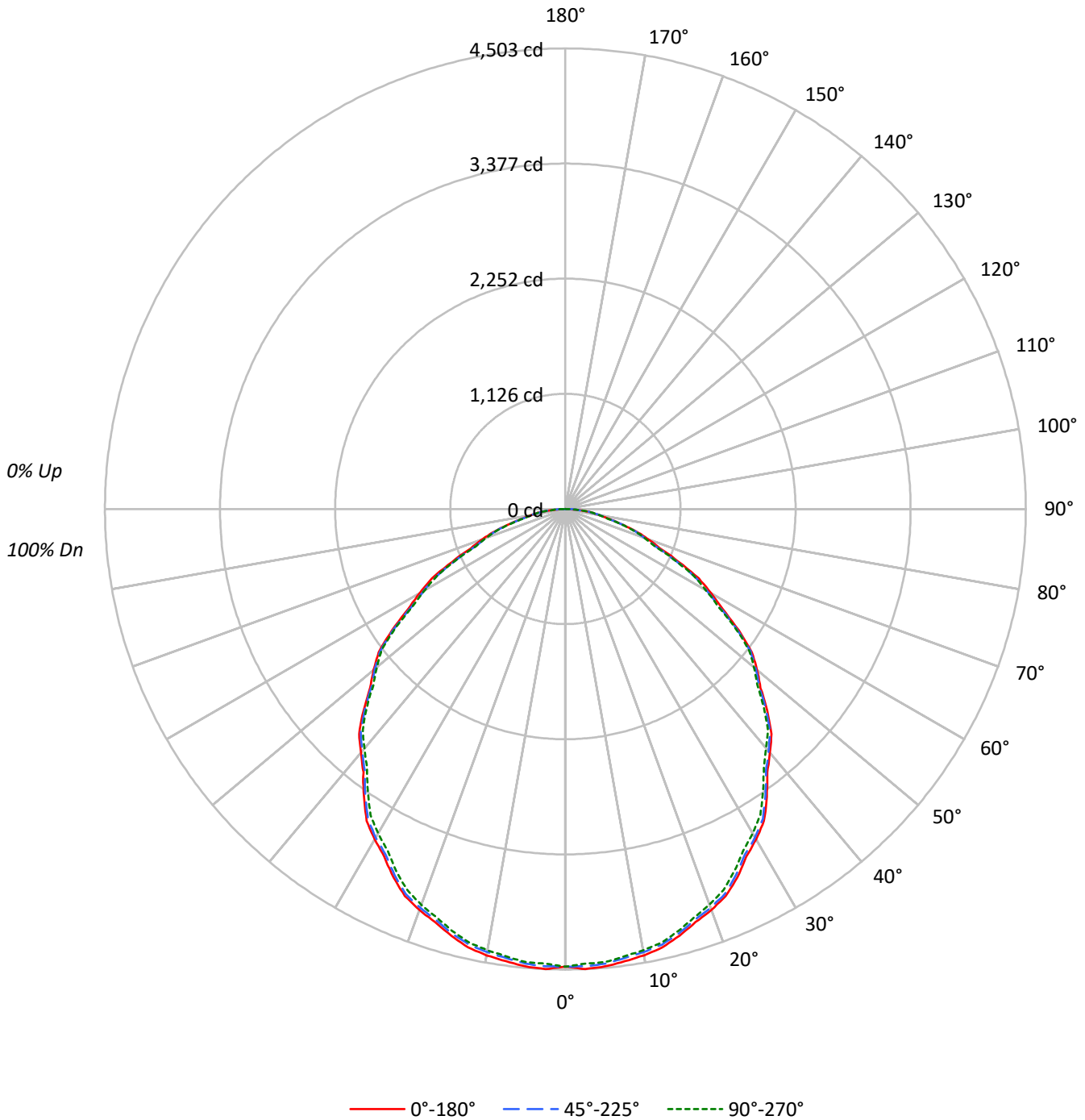
Lumens per Lamp: N/A
Luminaire Lumens: 11452.5 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

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



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13761	13761	13761
5°	13862	13777	13729
10°	13839	13741	13680
15°	13747	13672	13597
20°	13656	13579	13476
25°	13494	13401	13268
30°	13244	13174	13007
35°	12898	12809	12647
40°	12485	12406	12265
45°	12144	12059	11940
50°	11708	11633	11521
55°	11102	10955	10871
60°	10107	9817	9769
65°	8904	8533	8505
70°	7687	7370	7370
75°	6617	6523	6431
80°	5834	5903	5765
85°	4566	4982	4982



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.1	3.7
10°-20°	1208.1	10.5
20°-30°	1809.6	15.8
30°-40°	2122.6	18.5
40°-50°	2129.2	18.6
50°-60°	1816.4	15.9
60°-70°	1184.6	10.3
70°-80°	594.3	5.2
80°-90°	164.5	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°	3440.9	30.0
0°-40°	5563.5	48.6
0°-60°	9509.1	83.0
0°-90°	11452.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11452.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4475	4475	4475	4475	4475	
5°	4490	4448	4463	4447	4447	426
15°	4318	4276	4294	4278	4271	1218
25°	3977	3930	3949	3914	3910	1829
35°	3435	3401	3412	3372	3369	2146
45°	2792	2773	2773	2745	2745	2150
55°	2071	2063	2043	2031	2028	1840
65°	1224	1200	1173	1165	1169	1221
75°	557	557	549	545	541	604
85°	129	141	141	141	141	157
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4474.6	4474.6	4474.6	4474.6	4474.6
2.5°	4502.8	4466.0	4474.6	4467.9	4449.5
5°	4490.3	4448.1	4462.8	4447.2	4447.2
7.5°	4459.7	4413.7	4428.3	4412.6	4411.9
10°	4431.5	4385.4	4400.1	4384.3	4380.5
12.5°	4390.7	4344.7	4362.4	4343.6	4342.8
15°	4317.7	4275.6	4294.2	4278.3	4270.7
17.5°	4235.4	4189.4	4211.9	4189.8	4186.8
20°	4172.6	4126.6	4149.1	4117.7	4117.7
22.5°	4097.3	4051.3	4076.9	4036.2	4036.2
25°	3976.6	3930.5	3949.1	3913.7	3909.9
27.5°	3833.0	3787.8	3807.1	3767.1	3766.4
30°	3729.5	3687.3	3709.9	3666.7	3662.8
32.5°	3616.5	3577.4	3593.8	3550.6	3546.7
35°	3435.4	3400.9	3411.8	3372.5	3368.7
37.5°	3244.8	3209.5	3222.0	3188.3	3186.7
40°	3109.9	3086.9	3090.3	3062.6	3055.0
42.5°	2984.4	2958.3	2961.6	2934.1	2932.6
45°	2792.2	2773.0	2772.6	2745.2	2745.2
47.5°	2588.3	2573.7	2569.5	2546.7	2545.9
50°	2447.1	2435.6	2431.4	2411.7	2407.9
52.5°	2299.7	2294.3	2280.8	2264.3	2263.6
55°	2070.6	2063.0	2043.2	2031.3	2027.5
57.5°	1822.0	1806.7	1784.4	1767.2	1770.2
60°	1643.2	1627.8	1596.1	1588.3	1588.3
62.5°	1470.6	1452.2	1420.4	1409.6	1415.7
65°	1223.6	1200.5	1172.6	1164.8	1168.7
67.5°	999.2	978.5	948.3	948.2	945.1
70°	854.9	843.4	819.6	819.6	819.6
72.5°	726.3	720.9	703.5	703.5	700.4
75°	556.9	556.9	549.0	545.0	541.2
77.5°	417.3	418.8	414.9	410.8	403.9
80°	329.4	337.1	333.3	329.3	325.5
82.5°	247.8	255.5	254.9	247.8	247.1
85°	129.4	140.9	141.2	141.2	141.2
87.5°	34.5	46.8	50.2	50.3	53.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)