

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: P564861

Luminaire Tested: **SQ4-PW1-0U-100D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564861
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-0U-100D-835-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

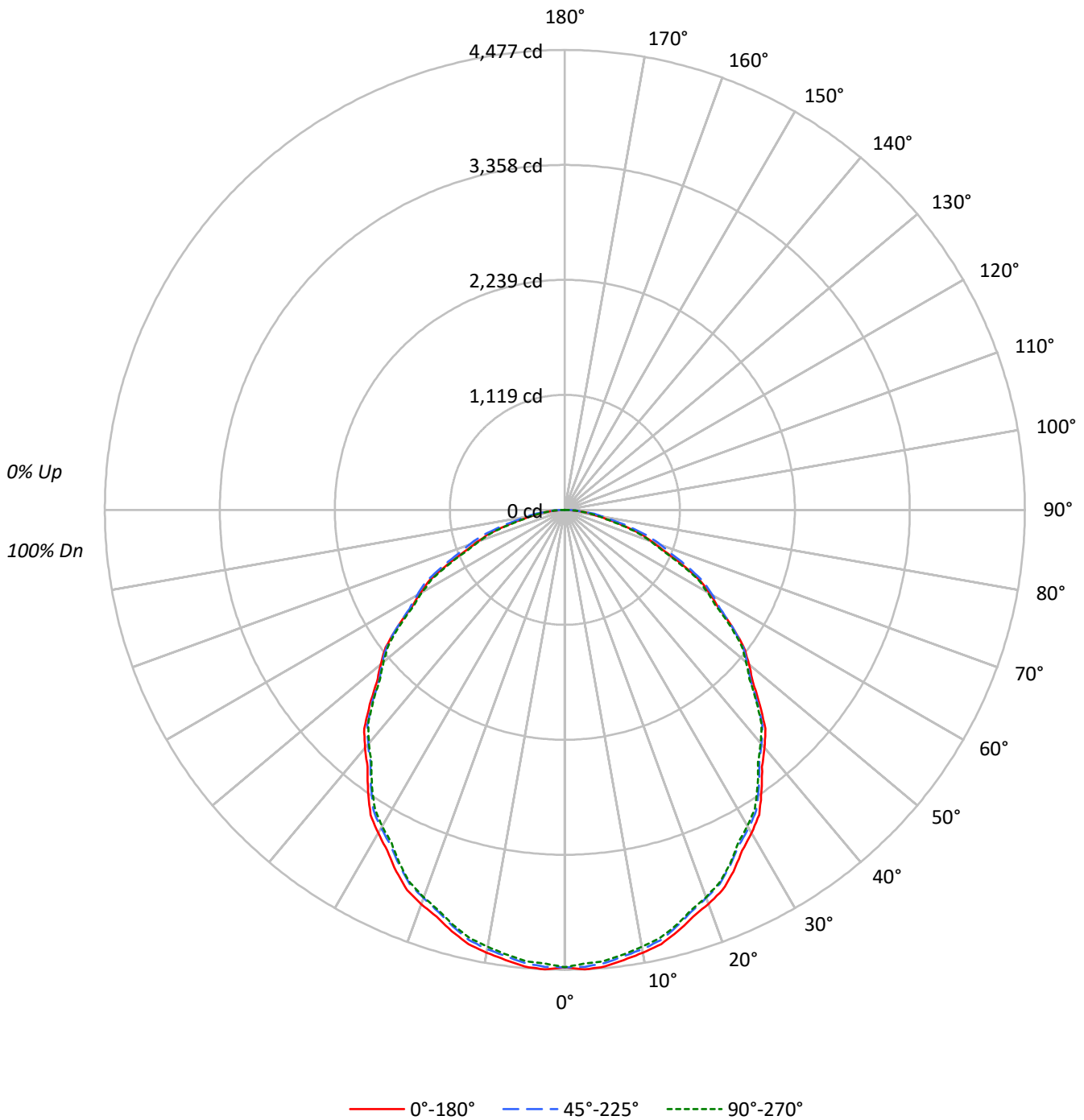
Lumens per Lamp: N/A
Luminaire Lumens: 11327.4 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

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	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	39	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13692	13692	13692
5°	13781	13672	13611
10°	13671	13560	13487
15°	13526	13376	13326
20°	13364	13159	13133
25°	13178	12938	12898
30°	12899	12704	12620
35°	12532	12356	12282
40°	12142	11952	11905
45°	11669	11516	11465
50°	11186	11091	11017
55°	10663	10663	10495
60°	10013	10206	9844
65°	9162	9619	8935
70°	8077	8853	7865
75°	6898	7923	6712
80°	5349	6670	5419
85°	3462	5120	4566



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	419.2	3.7
10°-20°	1183.6	10.4
20°-30°	1755.7	15.5
30°-40°	2054.3	18.1
40°-50°	2045.2	18.1
50°-60°	1766.1	15.6
60°-70°	1271.3	11.2
70°-80°	666.6	5.9
80°-90°	165.3	1.5
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°	3358.6	29.7
0°-40°	5412.9	47.8
0°-60°	9224.2	81.4
0°-90°	11327.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11327.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4452	4452	4452	4452	4452	
5°	4464	4414	4429	4417	4409	423
15°	4248	4194	4201	4193	4185	1197
25°	3883	3818	3813	3790	3801	1786
35°	3338	3292	3291	3260	3271	2087
45°	2683	2660	2648	2640	2636	2070
55°	1989	1985	1989	1961	1957	1774
65°	1259	1298	1322	1270	1228	1248
75°	580	634	667	622	565	622
85°	98	129	145	137	129	133
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4452.1	4452.1	4452.1	4452.1	4452.1
2.5°	4477.2	4440.4	4452.1	4442.2	4420.7
5°	4463.9	4414.0	4428.6	4416.7	4409.0
7.5°	4418.4	4372.4	4383.1	4370.4	4365.8
10°	4377.6	4331.6	4342.3	4326.4	4318.8
12.5°	4330.5	4281.4	4292.1	4276.3	4271.7
15°	4248.2	4194.5	4201.1	4193.1	4185.4
17.5°	4152.4	4098.0	4099.1	4086.5	4085.0
20°	4083.4	4025.9	4020.6	4005.1	4012.8
22.5°	4008.1	3947.5	3942.2	3920.5	3931.2
25°	3883.4	3818.2	3812.7	3789.5	3801.0
27.5°	3739.0	3674.6	3674.7	3642.0	3654.3
30°	3632.3	3570.9	3577.4	3538.5	3553.9
32.5°	3519.3	3464.1	3467.6	3428.7	3444.0
35°	3338.1	3292.1	3291.0	3259.9	3271.4
37.5°	3153.0	3112.3	3105.9	3087.9	3091.0
40°	3024.3	2989.8	2977.2	2965.5	2965.5
42.5°	2889.4	2857.9	2845.4	2836.7	2833.7
45°	2683.0	2660.0	2647.7	2639.8	2636.0
47.5°	2479.1	2457.6	2446.9	2441.3	2437.5
50°	2337.9	2322.5	2318.2	2306.4	2302.6
52.5°	2196.6	2187.4	2183.3	2168.3	2164.5
55°	1988.7	1984.9	1988.7	1961.2	1957.4
57.5°	1772.2	1778.4	1791.1	1754.0	1744.8
60°	1627.9	1643.2	1659.3	1615.8	1600.4
62.5°	1480.4	1504.9	1527.5	1477.5	1456.1
65°	1259.1	1297.5	1321.9	1270.0	1227.8
67.5°	1045.8	1093.3	1122.6	1066.6	1019.1
70°	898.3	952.0	984.6	928.4	874.7
72.5°	769.6	829.4	855.9	802.9	749.2
75°	580.5	634.2	666.8	622.4	564.9
77.5°	411.9	462.5	489.5	450.8	403.2
80°	302.0	355.7	376.6	344.3	306.0
82.5°	214.2	258.7	273.0	253.6	227.5
85°	98.1	128.7	145.1	137.1	129.4
87.5°	25.1	46.6	59.6	59.7	62.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)