

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: P564201

Luminaire Tested: **SQ4-PR1-0U-100D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564201
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-PR1-0U-100D-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

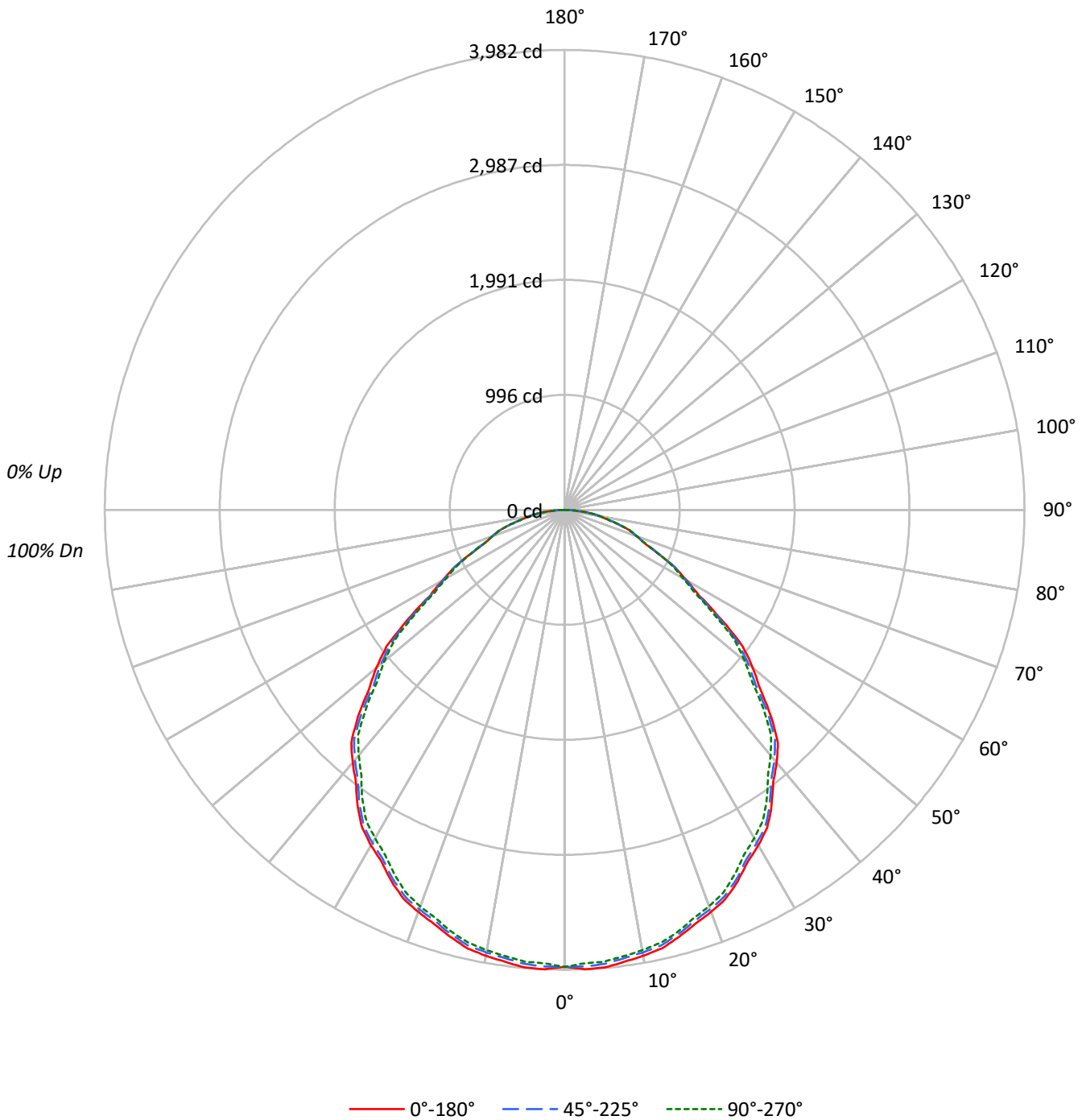
Lumens per Lamp: N/A
Luminaire Lumens: 9892.1 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

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	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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85				
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72				
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62				
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54				
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47				
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41				
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37				
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33				
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30				
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12169	12169	12169
5°	12279	12184	12121
10°	12240	12155	12091
15°	12186	12111	12045
20°	12125	12047	11958
25°	12040	11959	11820
30°	11910	11825	11656
35°	11734	11631	11465
40°	11466	11343	11138
45°	10999	10806	10584
50°	10176	9931	9735
55°	8881	8680	8498
60°	7484	7421	7275
65°	6474	6498	6449
70°	5945	5976	5976
75°	5711	5711	5751
80°	5372	5432	5372
85°	4330	4810	4810



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.2	3.8
10°-20°	1070.6	10.8
20°-30°	1614.8	16.3
30°-40°	1924.1	19.5
40°-50°	1897.0	19.2
50°-60°	1449.7	14.7
60°-70°	897.2	9.1
70°-80°	509.6	5.2
80°-90°	155.0	1.6
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°	3059.6	30.9
0°-40°	4983.7	50.4
0°-60°	8330.4	84.2
0°-90°	9892.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9892.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3957	3957	3957	3957	3957	
5°	3978	3934	3947	3933	3926	377
15°	3828	3788	3804	3790	3783	1080
25°	3548	3505	3524	3487	3483	1633
35°	3125	3089	3098	3057	3054	1951
45°	2529	2496	2485	2440	2434	1937
55°	1656	1630	1619	1592	1585	1484
65°	890	883	893	886	886	901
75°	481	481	481	484	484	508
85°	123	129	136	136	136	147
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3957.0	3957.0	3957.0	3957.0	3957.0
2.5°	3981.6	3946.9	3957.0	3948.4	3929.8
5°	3977.5	3934.2	3946.8	3933.0	3926.4
7.5°	3946.8	3904.1	3916.8	3903.1	3899.1
10°	3919.5	3879.5	3892.3	3878.5	3871.8
12.5°	3889.5	3846.9	3862.3	3845.8	3839.1
15°	3827.5	3787.5	3803.7	3789.9	3783.2
17.5°	3759.3	3716.7	3732.8	3716.9	3708.2
20°	3704.8	3664.8	3681.0	3657.0	3653.7
22.5°	3644.8	3604.8	3621.0	3588.9	3588.2
25°	3548.0	3504.7	3524.2	3486.6	3483.3
27.5°	3432.8	3392.8	3409.0	3370.7	3366.7
30°	3353.8	3313.8	3329.9	3288.9	3282.2
32.5°	3263.8	3226.5	3239.9	3198.9	3194.9
35°	3125.4	3088.7	3098.1	3057.2	3053.8
37.5°	2967.9	2934.6	2940.0	2894.9	2891.6
40°	2856.1	2822.8	2825.5	2777.7	2774.3
42.5°	2733.5	2700.1	2697.3	2649.5	2646.2
45°	2529.0	2495.6	2484.6	2440.2	2433.5
47.5°	2295.8	2262.5	2242.0	2205.7	2201.1
50°	2126.8	2093.4	2075.6	2044.7	2034.8
52.5°	1944.1	1910.8	1895.7	1867.5	1857.5
55°	1656.4	1629.8	1618.9	1591.5	1584.9
57.5°	1383.1	1365.1	1362.0	1335.3	1332.6
60°	1216.8	1206.8	1206.5	1182.7	1182.7
62.5°	1075.0	1067.6	1072.9	1057.2	1054.5
65°	889.6	882.9	893.0	886.2	886.2
67.5°	743.0	743.0	749.1	746.4	746.4
70°	661.2	661.2	664.6	664.6	664.6
72.5°	587.6	584.9	593.7	593.7	591.0
75°	480.6	480.6	480.6	484.0	484.0
77.5°	374.2	374.9	377.6	376.9	374.2
80°	303.3	306.7	306.7	303.3	303.3
82.5°	232.4	235.8	235.9	235.1	232.4
85°	122.7	129.4	136.3	136.3	136.3
87.5°	35.4	46.1	54.5	54.5	51.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)