

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: P564869

Luminaire Tested: **SQ4-PW1-0U-100D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564869
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-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

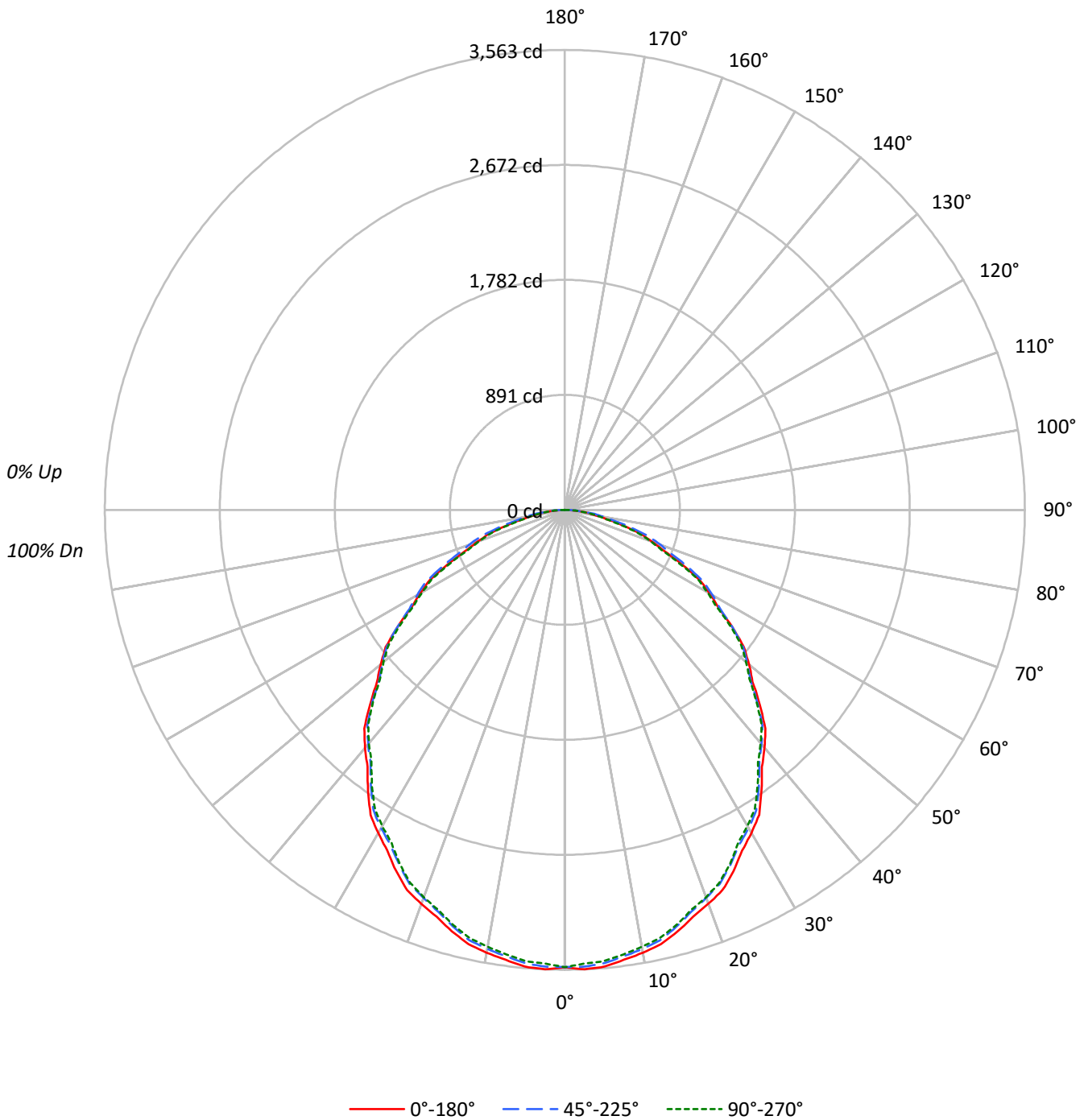
Lumens per Lamp: N/A
Luminaire Lumens: 9013.8 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

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°	10896	10896	10896
5°	10966	10879	10831
10°	10878	10791	10732
15°	10763	10644	10604
20°	10635	10471	10451
25°	10486	10295	10263
30°	10264	10109	10043
35°	9973	9832	9774
40°	9662	9512	9474
45°	9286	9164	9123
50°	8901	8826	8767
55°	8486	8486	8352
60°	7968	8122	7833
65°	7292	7655	7110
70°	6427	7045	6259
75°	5490	6305	5341
80°	4256	5308	4313
85°	2752	4076	3634



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.6	3.7
10°-20°	941.9	10.4
20°-30°	1397.1	15.5
30°-40°	1634.8	18.1
40°-50°	1627.5	18.1
50°-60°	1405.4	15.6
60°-70°	1011.6	11.2
70°-80°	530.5	5.9
80°-90°	131.5	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°	2672.6	29.6
0°-40°	4307.3	47.8
0°-60°	7340.2	81.4
0°-90°	9013.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9013.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3543	3543	3543	3543	3543	
5°	3552	3512	3524	3515	3508	336
15°	3380	3338	3343	3337	3330	953
25°	3090	3038	3034	3016	3025	1421
35°	2656	2620	2619	2594	2603	1661
45°	2135	2117	2107	2101	2098	1647
55°	1583	1580	1583	1561	1558	1412
65°	1002	1032	1052	1011	977	993
75°	462	505	531	495	450	495
85°	78	102	116	109	103	106
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3542.8	3542.8	3542.8	3542.8	3542.8
2.5°	3562.8	3533.5	3542.8	3534.9	3517.8
5°	3552.2	3512.5	3524.1	3514.6	3508.5
7.5°	3516.0	3479.3	3487.9	3477.8	3474.1
10°	3483.5	3446.9	3455.4	3442.8	3436.7
12.5°	3446.0	3407.0	3415.5	3402.9	3399.2
15°	3380.5	3337.8	3343.0	3336.7	3330.5
17.5°	3304.3	3261.0	3261.9	3251.9	3250.6
20°	3249.4	3203.6	3199.4	3187.1	3193.2
22.5°	3189.5	3141.2	3137.0	3119.7	3128.3
25°	3090.2	3038.3	3034.0	3015.5	3024.6
27.5°	2975.3	2924.1	2924.1	2898.1	2907.9
30°	2890.4	2841.6	2846.7	2815.8	2828.0
32.5°	2800.5	2756.6	2759.3	2728.4	2740.6
35°	2656.3	2619.7	2618.9	2594.1	2603.3
37.5°	2509.0	2476.6	2471.5	2457.2	2459.7
40°	2406.6	2379.1	2369.2	2359.8	2359.8
42.5°	2299.2	2274.2	2264.3	2257.4	2254.9
45°	2135.0	2116.7	2107.0	2100.6	2097.6
47.5°	1972.7	1955.6	1947.1	1942.7	1939.6
50°	1860.4	1848.2	1844.8	1835.3	1832.3
52.5°	1748.0	1740.7	1737.4	1725.4	1722.4
55°	1582.6	1579.5	1582.6	1560.6	1557.6
57.5°	1410.3	1415.1	1425.2	1395.7	1388.4
60°	1295.4	1307.6	1320.4	1285.7	1273.5
62.5°	1178.0	1197.6	1215.5	1175.8	1158.7
65°	1002.0	1032.5	1051.9	1010.6	977.0
67.5°	832.2	870.0	893.3	848.8	810.9
70°	714.8	757.5	783.5	738.8	696.1
72.5°	612.4	660.0	681.1	638.9	596.2
75°	462.0	504.7	530.6	495.3	449.5
77.5°	327.7	368.0	389.6	358.7	320.9
80°	240.3	283.1	299.7	274.0	243.5
82.5°	170.4	205.8	217.3	201.8	181.0
85°	78.0	102.5	115.5	109.1	103.0
87.5°	20.0	37.1	47.4	47.5	49.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)