

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: P564845

Luminaire Tested: **SQ4-PW1-0U-075D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564845
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-075D-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

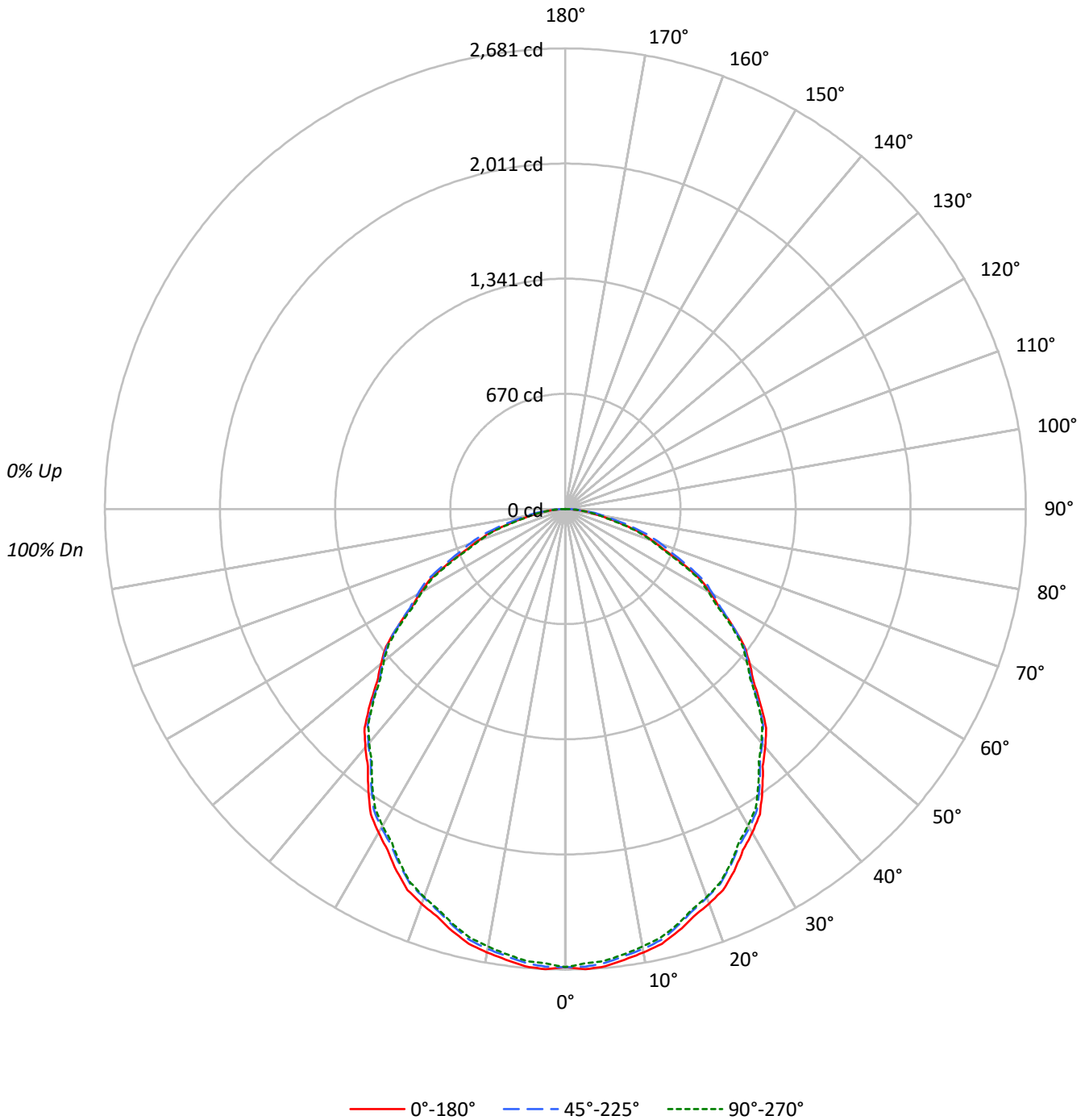
Lumens per Lamp: N/A
Luminaire Lumens: 6783.9 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

Input Watts (W): 79.4
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°	8200	8200	8200
5°	8253	8188	8152
10°	8187	8121	8077
15°	8100	8011	7981
20°	8004	7881	7865
25°	7892	7748	7725
30°	7725	7608	7558
35°	7506	7400	7356
40°	7271	7159	7130
45°	6989	6897	6866
50°	6699	6643	6598
55°	6386	6386	6286
60°	5996	6112	5896
65°	5488	5761	5351
70°	4838	5303	4711
75°	4132	4746	4020
80°	3204	3994	3245
85°	2071	3066	2735



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.1	3.7
10°-20°	708.9	10.4
20°-30°	1051.5	15.5
30°-40°	1230.3	18.1
40°-50°	1224.8	18.1
50°-60°	1057.7	15.6
60°-70°	761.4	11.2
70°-80°	399.3	5.9
80°-90°	99.0	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°	2011.4	29.6
0°-40°	3241.8	47.8
0°-60°	5524.3	81.4
0°-90°	6783.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6783.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2666	2666	2666	2666	2666	
5°	2673	2644	2652	2645	2640	253
15°	2544	2512	2516	2511	2507	717
25°	2326	2287	2283	2270	2276	1069
35°	1999	1972	1971	1952	1959	1250
45°	1607	1593	1586	1581	1579	1240
55°	1191	1189	1191	1175	1172	1063
65°	754	777	792	761	735	747
75°	348	380	399	373	338	373
85°	59	77	87	82	78	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2666.4	2666.4	2666.4	2666.4	2666.4
2.5°	2681.4	2659.3	2666.4	2660.4	2647.6
5°	2673.4	2643.5	2652.3	2645.1	2640.5
7.5°	2646.2	2618.6	2625.0	2617.4	2614.7
10°	2621.7	2594.2	2600.6	2591.1	2586.5
12.5°	2593.5	2564.1	2570.5	2561.1	2558.3
15°	2544.2	2512.0	2516.0	2511.2	2506.6
17.5°	2486.9	2454.3	2454.9	2447.4	2446.5
20°	2445.5	2411.1	2407.9	2398.7	2403.3
22.5°	2400.4	2364.1	2361.0	2348.0	2354.4
25°	2325.7	2286.7	2283.4	2269.5	2276.4
27.5°	2239.3	2200.7	2200.7	2181.2	2188.5
30°	2175.4	2138.6	2142.5	2119.2	2128.4
32.5°	2107.7	2074.6	2076.7	2053.4	2062.6
35°	1999.2	1971.6	1971.0	1952.4	1959.2
37.5°	1888.3	1864.0	1860.1	1849.3	1851.2
40°	1811.2	1790.6	1783.1	1776.0	1776.0
42.5°	1730.4	1711.6	1704.1	1698.9	1697.1
45°	1606.9	1593.1	1585.7	1581.0	1578.7
47.5°	1484.7	1471.8	1465.4	1462.1	1459.8
50°	1400.1	1390.9	1388.4	1381.3	1379.0
52.5°	1315.6	1310.0	1307.6	1298.6	1296.3
55°	1191.1	1188.8	1191.1	1174.6	1172.3
57.5°	1061.4	1065.1	1072.7	1050.4	1044.9
60°	974.9	984.1	993.7	967.7	958.5
62.5°	886.6	901.3	914.8	884.9	872.0
65°	754.1	777.1	791.7	760.6	735.3
67.5°	626.3	654.8	672.3	638.8	610.3
70°	538.0	570.1	589.7	556.0	523.9
72.5°	460.9	496.8	512.6	480.9	448.7
75°	347.7	379.8	399.4	372.7	338.3
77.5°	246.7	277.0	293.2	270.0	241.5
80°	180.9	213.0	225.5	206.2	183.2
82.5°	128.3	154.9	163.5	151.9	136.3
85°	58.7	77.1	86.9	82.1	77.5
87.5°	15.0	27.9	35.7	35.7	37.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)