

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: P564149

Luminaire Tested: **SQ4-PR1-0U-050D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564149  
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-050D-930-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

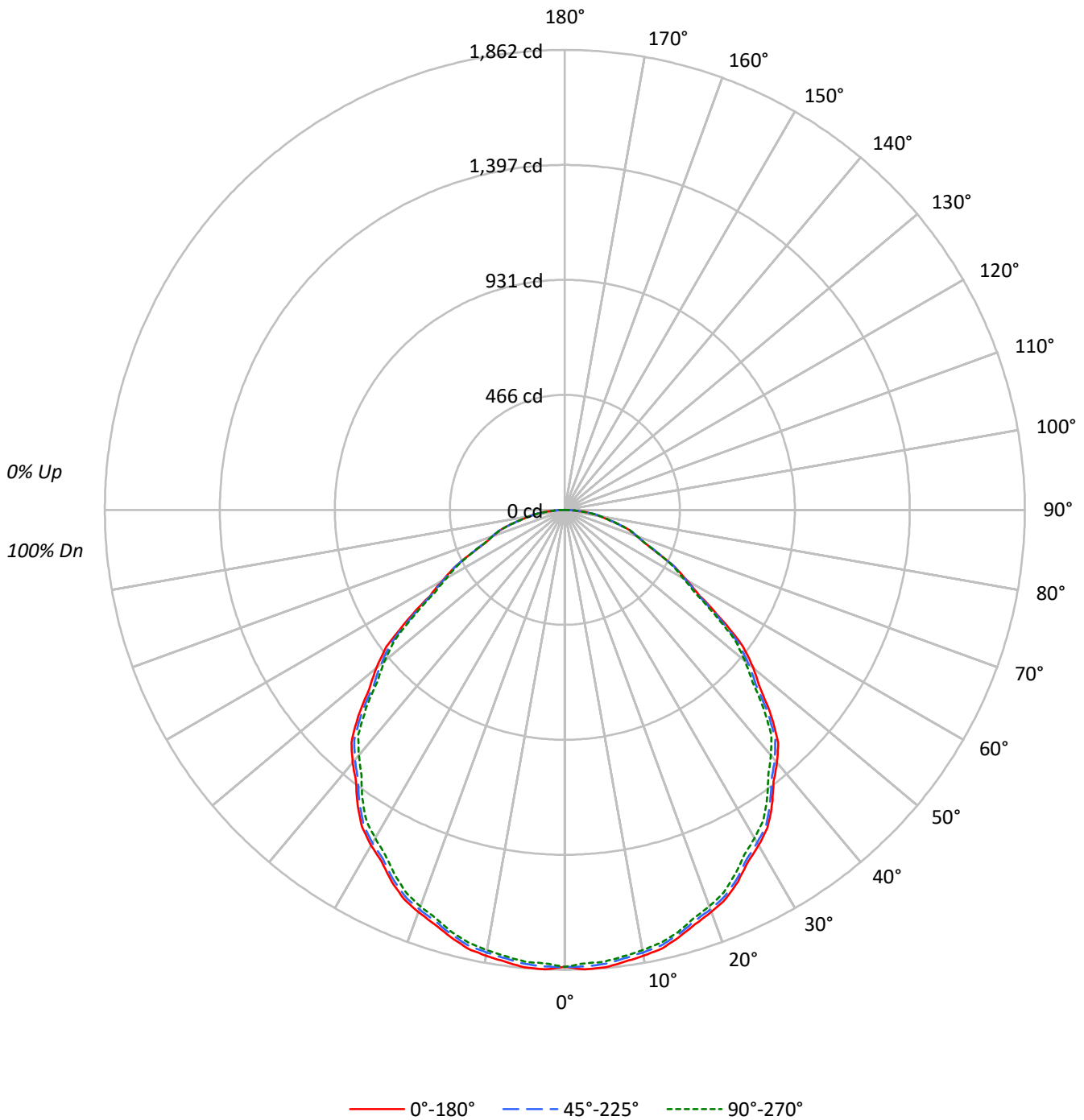
Lumens per Lamp: N/A  
Luminaire Lumens: 4626.1 lumens  
Efficiency: N/A  
Efficacy: 86.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Direct

Input Watts (W): 53.4  
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



TEST NUMBER: P564149  
CATALOG NUMBER: SQ4-PR1-0U-050D-930-1D-UNV-STD-W-12

### Luminous Intensity Polar Plot





TEST NUMBER: P564149

CATALOG NUMBER: SQ4-PR1-0U-050D-930-1D-UNV-STD-W-12

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20				
RC	80					70					50					30				
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	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°	5691	5691	5691
5°	5742	5698	5669
10°	5724	5684	5655
15°	5699	5664	5633
20°	5670	5634	5592
25°	5630	5593	5528
30°	5570	5530	5451
35°	5487	5439	5362
40°	5362	5305	5209
45°	5144	5053	4949
50°	4759	4644	4553
55°	4153	4059	3974
60°	3500	3470	3402
65°	3027	3039	3016
70°	2780	2795	2795
75°	2670	2670	2689
80°	2513	2541	2513
85°	2025	2251	2251



TEST NUMBER: P564149

CATALOG NUMBER: SQ4-PR1-0U-050D-930-1D-UNV-STD-W-12

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.0	3.8
10°-20°	500.7	10.8
20°-30°	755.2	16.3
30°-40°	899.8	19.5
40°-50°	887.1	19.2
50°-60°	678.0	14.7
60°-70°	419.6	9.1
70°-80°	238.3	5.2
80°-90°	72.5	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°	1430.8	30.9
0°-40°	2330.6	50.4
0°-60°	3895.7	84.2
0°-90°	4626.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4626.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1850	1850	1850	1850	1850	
5°	1860	1840	1846	1839	1836	176
15°	1790	1771	1779	1772	1769	505
25°	1659	1639	1648	1630	1629	764
35°	1462	1444	1449	1430	1428	912
45°	1183	1167	1162	1141	1138	906
55°	775	762	757	744	741	694
65°	416	413	418	414	414	421
75°	225	225	225	226	226	237
85°	57	60	64	64	64	69
90°	0	0	0	0	0	



TEST NUMBER: P564149

CATALOG NUMBER: SQ4-PR1-OU-050D-930-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1850.5	1850.5	1850.5	1850.5	1850.5
2.5°	1862.0	1845.8	1850.5	1846.5	1837.8
5°	1860.1	1839.8	1845.7	1839.3	1836.2
7.5°	1845.7	1825.8	1831.7	1825.3	1823.4
10°	1833.0	1814.3	1820.2	1813.8	1810.7
12.5°	1818.9	1799.0	1806.2	1798.5	1795.4
15°	1789.9	1771.2	1778.8	1772.3	1769.2
17.5°	1758.1	1738.1	1745.6	1738.2	1734.2
20°	1732.6	1713.9	1721.4	1710.2	1708.7
22.5°	1704.5	1685.8	1693.4	1678.4	1678.0
25°	1659.2	1639.0	1648.1	1630.5	1629.0
27.5°	1605.4	1586.7	1594.2	1576.3	1574.4
30°	1568.4	1549.7	1557.2	1538.0	1534.9
32.5°	1526.3	1508.9	1515.2	1496.0	1494.1
35°	1461.6	1444.5	1448.8	1429.7	1428.1
37.5°	1388.0	1372.4	1374.9	1353.8	1352.3
40°	1335.7	1320.1	1321.3	1299.0	1297.4
42.5°	1278.3	1262.7	1261.4	1239.1	1237.5
45°	1182.7	1167.1	1161.9	1141.2	1138.0
47.5°	1073.6	1058.1	1048.5	1031.5	1029.3
50°	994.6	979.0	970.7	956.2	951.6
52.5°	909.2	893.6	886.5	873.3	868.7
55°	774.6	762.2	757.1	744.3	741.2
57.5°	646.8	638.4	636.9	624.5	623.2
60°	569.0	564.3	564.2	553.1	553.1
62.5°	502.7	499.3	501.8	494.4	493.2
65°	416.0	412.9	417.6	414.4	414.4
67.5°	347.5	347.5	350.3	349.1	349.1
70°	309.2	309.2	310.8	310.8	310.8
72.5°	274.8	273.5	277.7	277.6	276.4
75°	224.7	224.7	224.7	226.3	226.3
77.5°	175.0	175.3	176.6	176.3	175.0
80°	141.9	143.4	143.5	141.9	141.9
82.5°	108.7	110.3	110.3	110.0	108.7
85°	57.4	60.5	63.8	63.8	63.8
87.5°	16.6	21.6	25.5	25.5	24.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)