

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: P564199

Luminaire Tested: **SQ4-PR1-0U-100D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564199  
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-930-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

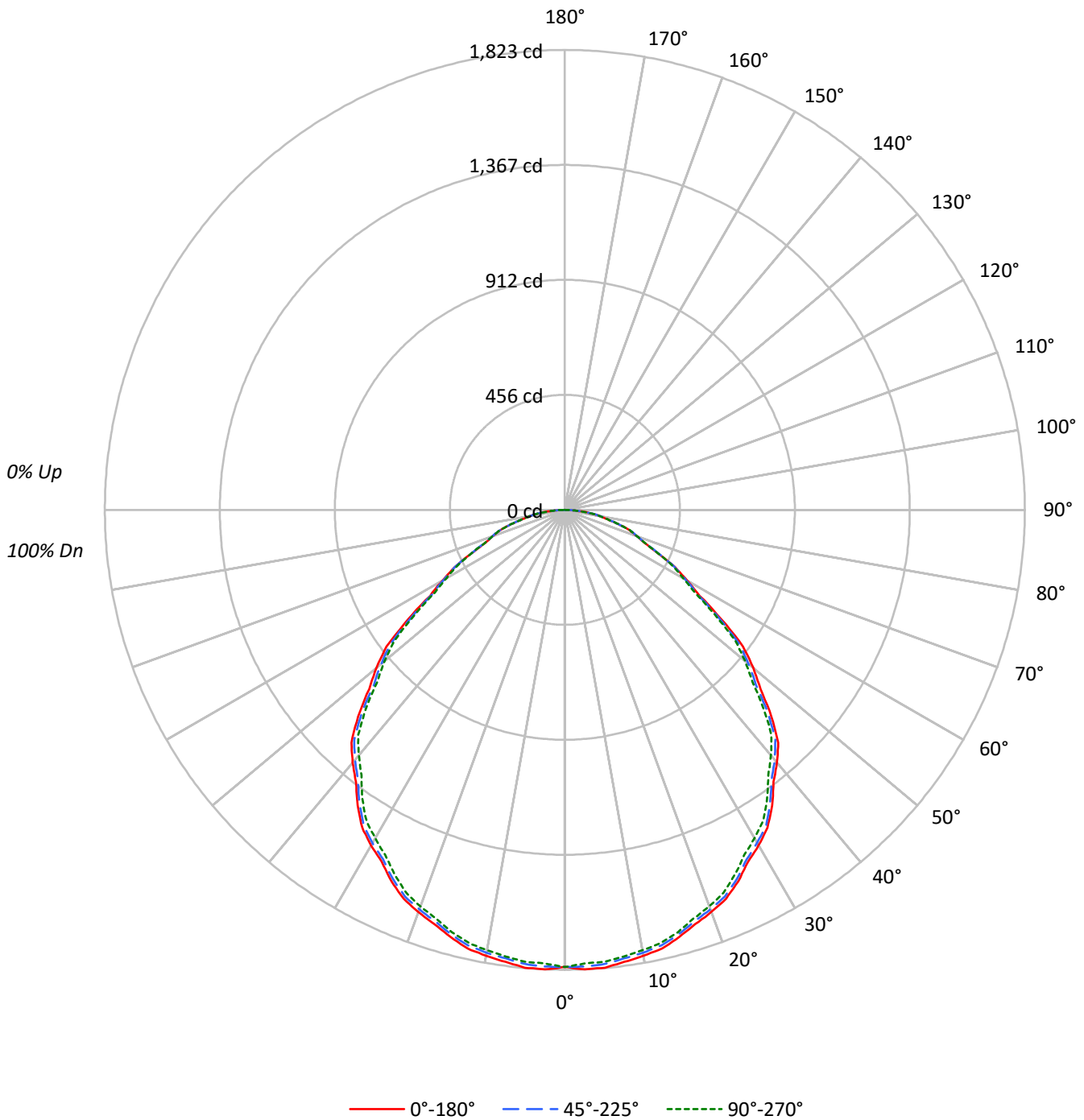
Lumens per Lamp: N/A  
Luminaire Lumens: 4529.7 lumens  
Efficiency: N/A  
Efficacy: 81.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Direct

Input Watts (W): 55.3  
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				100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85				85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72				72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62				62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54				54
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47				47
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41				41
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37				37
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33				33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30				30
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27				27

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	11145	11145	11145
5°	11245	11159	11101
10°	11210	11132	11074
15°	11161	11091	11032
20°	11105	11033	10951
25°	11026	10952	10825
30°	10907	10830	10675
35°	10747	10653	10500
40°	10502	10388	10200
45°	10073	9897	9693
50°	9319	9095	8915
55°	8134	7949	7782
60°	6854	6797	6663
65°	5928	5951	5906
70°	5445	5472	5472
75°	5231	5231	5266
80°	4920	4977	4920
85°	3966	4404	4404



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.4	3.8
10°-20°	490.2	10.8
20°-30°	739.5	16.3
30°-40°	881.1	19.5
40°-50°	868.6	19.2
50°-60°	663.9	14.7
60°-70°	410.8	9.1
70°-80°	233.3	5.2
80°-90°	71.0	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°	1401.1	30.9
0°-40°	2282.1	50.4
0°-60°	3814.6	84.2
0°-90°	4529.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4529.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1812	1812	1812	1812	1812	
5°	1821	1802	1807	1801	1798	173
15°	1753	1734	1742	1735	1732	495
25°	1625	1605	1614	1597	1595	748
35°	1431	1414	1419	1400	1398	893
45°	1158	1143	1138	1117	1114	887
55°	758	746	741	729	726	680
65°	407	404	409	406	406	413
75°	220	220	220	222	222	232
85°	56	59	62	62	62	68
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1812.0	1812.0	1812.0	1812.0	1812.0
2.5°	1823.2	1807.3	1812.0	1808.0	1799.5
5°	1821.3	1801.5	1807.3	1801.0	1797.9
7.5°	1807.3	1787.8	1793.6	1787.3	1785.4
10°	1794.8	1776.5	1782.3	1776.0	1773.0
12.5°	1781.1	1761.5	1768.6	1761.0	1758.0
15°	1752.7	1734.4	1741.7	1735.4	1732.4
17.5°	1721.5	1701.9	1709.3	1702.0	1698.0
20°	1696.5	1678.2	1685.6	1674.6	1673.1
22.5°	1669.0	1650.7	1658.1	1643.4	1643.1
25°	1624.7	1604.9	1613.8	1596.6	1595.0
27.5°	1571.9	1553.6	1561.0	1543.5	1541.7
30°	1535.7	1517.4	1524.8	1506.0	1503.0
32.5°	1494.5	1477.4	1483.6	1464.8	1463.0
35°	1431.2	1414.4	1418.7	1399.9	1398.4
37.5°	1359.1	1343.8	1346.3	1325.6	1324.1
40°	1307.9	1292.6	1293.8	1271.9	1270.4
42.5°	1251.7	1236.4	1235.1	1213.3	1211.7
45°	1158.0	1142.8	1137.8	1117.4	1114.3
47.5°	1051.3	1036.0	1026.6	1010.0	1007.9
50°	973.9	958.6	950.5	936.3	931.7
52.5°	890.2	875.0	868.1	855.2	850.6
55°	758.5	746.3	741.3	728.8	725.7
57.5°	633.3	625.1	623.7	611.5	610.2
60°	557.2	552.6	552.5	541.6	541.6
62.5°	492.2	488.9	491.3	484.1	482.9
65°	407.3	404.3	408.9	405.8	405.8
67.5°	340.2	340.2	343.0	341.8	341.8
70°	302.8	302.8	304.3	304.3	304.3
72.5°	269.1	267.8	271.9	271.8	270.6
75°	220.1	220.1	220.1	221.6	221.6
77.5°	171.4	171.7	172.9	172.6	171.4
80°	138.9	140.4	140.5	138.9	138.9
82.5°	106.4	108.0	108.0	107.7	106.4
85°	56.2	59.2	62.4	62.4	62.4
87.5°	16.2	21.1	25.0	24.9	23.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)