

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: P563528

Luminaire Tested: **SQ4-PP3-0U-100D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563528  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-0U-100D-930-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

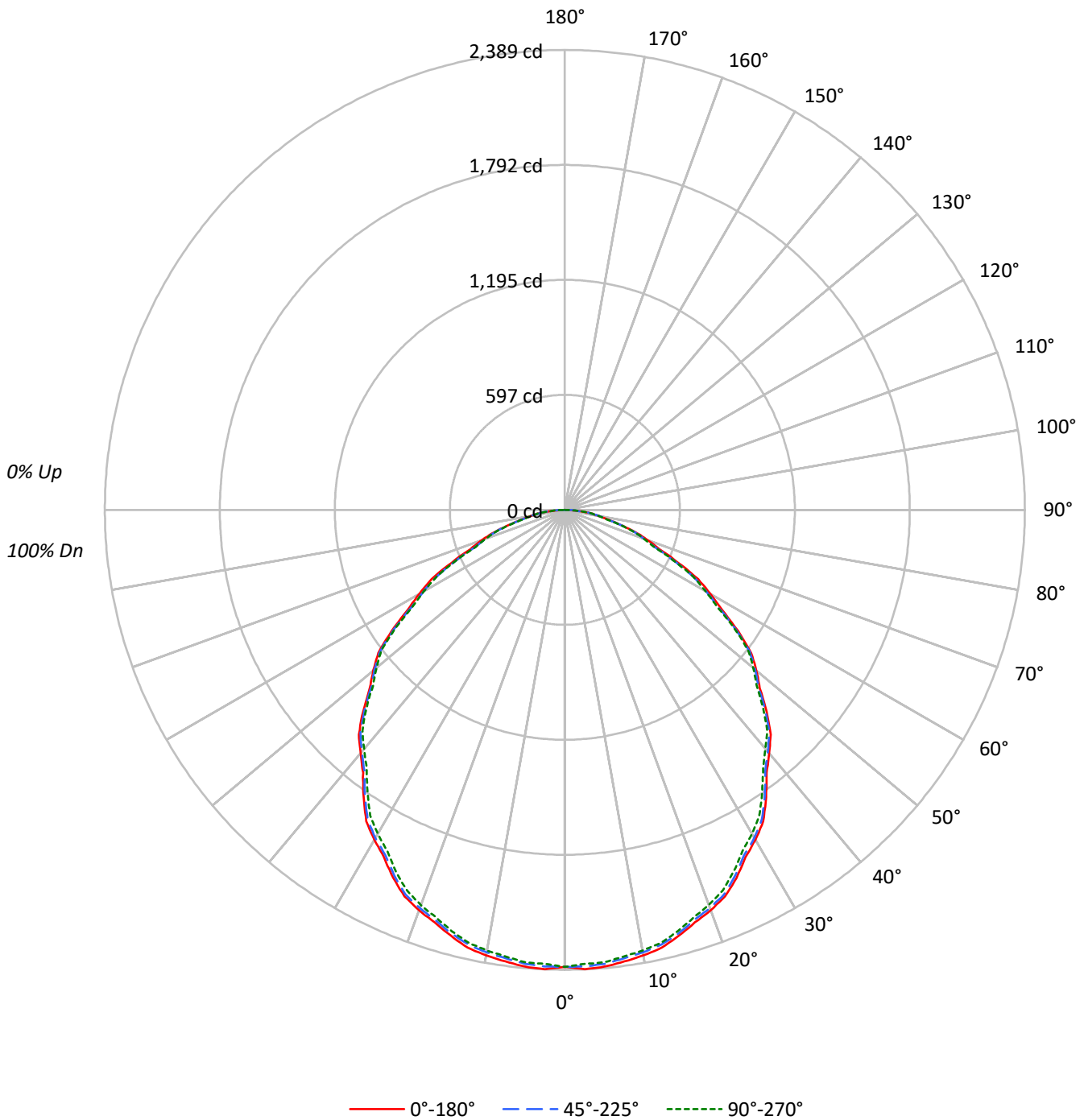
Lumens per Lamp: N/A  
Luminaire Lumens: 6075.6 lumens  
Efficiency: N/A  
Efficacy: 84.7 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Direct

Input Watts (W): 71.7  
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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85				
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72				
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61				
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53				
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46				
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40				
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36				
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32				
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29				
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26				

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

	0°	45°	90°
0°	10951	10951	10951
5°	11031	10963	10925
10°	11012	10934	10886
15°	10940	10880	10820
20°	10867	10806	10724
25°	10738	10664	10558
30°	10539	10484	10350
35°	10264	10193	10064
40°	9935	9872	9760
45°	9664	9596	9501
50°	9317	9257	9168
55°	8835	8717	8651
60°	8042	7812	7774
65°	7085	6791	6768
70°	6117	5864	5864
75°	5265	5192	5117
80°	4644	4697	4588
85°	3636	3964	3964



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	224.5	3.7
10°-20°	640.9	10.5
20°-30°	960.0	15.8
30°-40°	1126.0	18.5
40°-50°	1129.6	18.6
50°-60°	963.6	15.9
60°-70°	628.4	10.3
70°-80°	315.3	5.2
80°-90°	87.3	1.4
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°	1825.4	30.0
0°-40°	2951.4	48.6
0°-60°	5044.6	83.0
0°-90°	6075.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6075.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2374	2374	2374	2374	2374	
5°	2382	2360	2368	2359	2359	226
15°	2291	2268	2278	2270	2266	646
25°	2110	2085	2095	2076	2074	970
35°	1822	1804	1810	1789	1787	1138
45°	1481	1471	1471	1456	1456	1141
55°	1098	1094	1084	1078	1076	976
65°	649	637	622	618	620	648
75°	295	295	291	289	287	321
85°	69	75	75	75	75	83
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2373.8	2373.8	2373.8	2373.8	2373.8
2.5°	2388.8	2369.2	2373.8	2370.2	2360.5
5°	2382.1	2359.7	2367.5	2359.2	2359.2
7.5°	2365.9	2341.5	2349.2	2340.9	2340.5
10°	2350.9	2326.5	2334.3	2325.9	2323.9
12.5°	2329.3	2304.9	2314.3	2304.3	2303.9
15°	2290.6	2268.2	2278.1	2269.7	2265.6
17.5°	2246.9	2222.5	2234.4	2222.7	2221.1
20°	2213.6	2189.2	2201.1	2184.5	2184.5
22.5°	2173.7	2149.2	2162.8	2141.2	2141.2
25°	2109.6	2085.2	2095.0	2076.2	2074.2
27.5°	2033.4	2009.4	2019.7	1998.5	1998.1
30°	1978.5	1956.1	1968.1	1945.2	1943.1
32.5°	1918.6	1897.8	1906.5	1883.6	1881.6
35°	1822.5	1804.2	1810.0	1789.1	1787.1
37.5°	1721.4	1702.6	1709.3	1691.4	1690.6
40°	1649.8	1637.6	1639.4	1624.7	1620.7
42.5°	1583.2	1569.4	1571.2	1556.6	1555.8
45°	1481.3	1471.1	1470.9	1456.3	1456.3
47.5°	1373.1	1365.4	1363.1	1351.0	1350.6
50°	1298.2	1292.1	1289.9	1279.4	1277.4
52.5°	1220.0	1217.1	1210.0	1201.2	1200.8
55°	1098.5	1094.4	1083.9	1077.6	1075.6
57.5°	966.6	958.4	946.6	937.5	939.1
60°	871.7	863.6	846.7	842.6	842.6
62.5°	780.2	770.4	753.5	747.8	751.0
65°	649.1	636.9	622.1	617.9	620.0
67.5°	530.1	519.1	503.1	503.0	501.4
70°	453.5	447.4	434.8	434.8	434.8
72.5°	385.3	382.5	373.2	373.2	371.6
75°	295.4	295.4	291.3	289.1	287.1
77.5°	221.4	222.2	220.1	217.9	214.3
80°	174.8	178.8	176.8	174.7	172.7
82.5°	131.5	135.6	135.2	131.5	131.1
85°	68.7	74.8	74.9	74.9	74.9
87.5°	18.3	24.8	26.6	26.7	28.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)