

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: P563473

Luminaire Tested: **SQ4-PP3-0U-050D-840-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563473  
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-050D-840-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

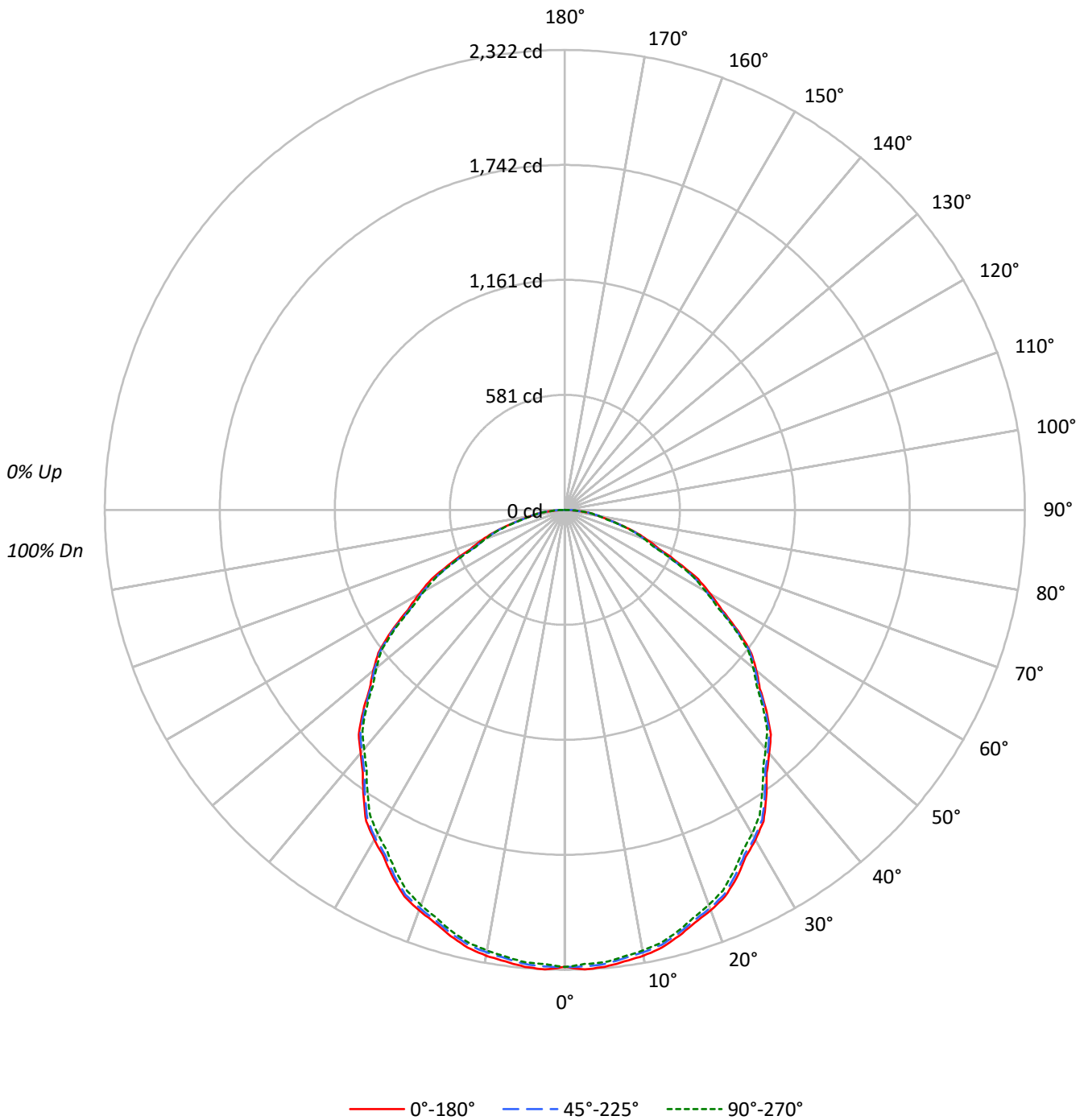
Lumens per Lamp: N/A  
Luminaire Lumens: 5906.9 lumens  
Efficiency: N/A  
Efficacy: 110.6 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Direct

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



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20									
RC	80									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°	7098	7098	7098
5°	7150	7106	7081
10°	7138	7087	7055
15°	7091	7052	7013
20°	7043	7004	6951
25°	6960	6912	6843
30°	6831	6795	6709
35°	6652	6607	6523
40°	6439	6399	6326
45°	6263	6219	6158
50°	6038	6000	5942
55°	5726	5650	5607
60°	5213	5063	5039
65°	4593	4401	4387
70°	3965	3801	3801
75°	3413	3365	3316
80°	3009	3044	2974
85°	2354	2569	2569



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	218.2	3.7
10°-20°	623.1	10.5
20°-30°	933.4	15.8
30°-40°	1094.8	18.5
40°-50°	1098.2	18.6
50°-60°	936.8	15.9
60°-70°	611.0	10.3
70°-80°	306.5	5.2
80°-90°	84.8	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°	1774.7	30.0
0°-40°	2869.5	48.6
0°-60°	4904.5	83.0
0°-90°	5906.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5906.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2308	2308	2308	2308	2308	
5°	2316	2294	2302	2294	2294	220
15°	2227	2205	2215	2207	2203	628
25°	2051	2027	2037	2019	2017	943
35°	1772	1754	1760	1740	1738	1107
45°	1440	1430	1430	1416	1416	1109
55°	1068	1064	1054	1048	1046	949
65°	631	619	605	601	603	630
75°	287	287	283	281	279	312
85°	67	73	73	73	73	81
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2307.9	2307.9	2307.9	2307.9	2307.9
2.5°	2322.4	2303.4	2307.9	2304.4	2294.9
5°	2316.0	2294.2	2301.8	2293.7	2293.7
7.5°	2300.2	2276.5	2284.0	2275.9	2275.5
10°	2285.6	2261.9	2269.4	2261.3	2259.3
12.5°	2264.6	2240.9	2250.0	2240.3	2239.9
15°	2227.0	2205.2	2214.8	2206.6	2202.7
17.5°	2184.5	2160.8	2172.4	2161.0	2159.4
20°	2152.1	2128.4	2140.0	2123.8	2123.8
22.5°	2113.3	2089.6	2102.8	2081.7	2081.7
25°	2051.0	2027.3	2036.8	2018.6	2016.6
27.5°	1977.0	1953.6	1963.6	1943.0	1942.6
30°	1923.6	1901.8	1913.4	1891.2	1889.2
32.5°	1865.3	1845.1	1853.6	1831.3	1829.3
35°	1771.9	1754.1	1759.7	1739.5	1737.5
37.5°	1673.6	1655.4	1661.8	1644.4	1643.6
40°	1604.0	1592.1	1593.9	1579.6	1575.7
42.5°	1539.3	1525.8	1527.5	1513.3	1512.6
45°	1440.1	1430.3	1430.0	1415.9	1415.9
47.5°	1335.0	1327.4	1325.3	1313.5	1313.1
50°	1262.1	1256.2	1254.1	1243.9	1241.9
52.5°	1186.1	1183.3	1176.4	1167.9	1167.5
55°	1068.0	1064.0	1053.8	1047.7	1045.7
57.5°	939.7	931.8	920.3	911.5	913.0
60°	847.5	839.6	823.2	819.2	819.2
62.5°	758.5	749.0	732.6	727.0	730.2
65°	631.1	619.2	604.8	600.8	602.8
67.5°	515.4	504.7	489.1	489.0	487.5
70°	440.9	435.0	422.7	422.7	422.7
72.5°	374.6	371.8	362.9	362.8	361.2
75°	287.2	287.2	283.2	281.1	279.1
77.5°	215.2	216.0	214.0	211.9	208.3
80°	169.9	173.9	171.9	169.9	167.9
82.5°	127.8	131.8	131.5	127.8	127.4
85°	66.7	72.7	72.8	72.8	72.8
87.5°	17.8	24.1	25.9	25.9	27.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)