

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: P563465

Luminaire Tested: **SQ4-PP3-0U-050D-830-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563465  
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-830-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

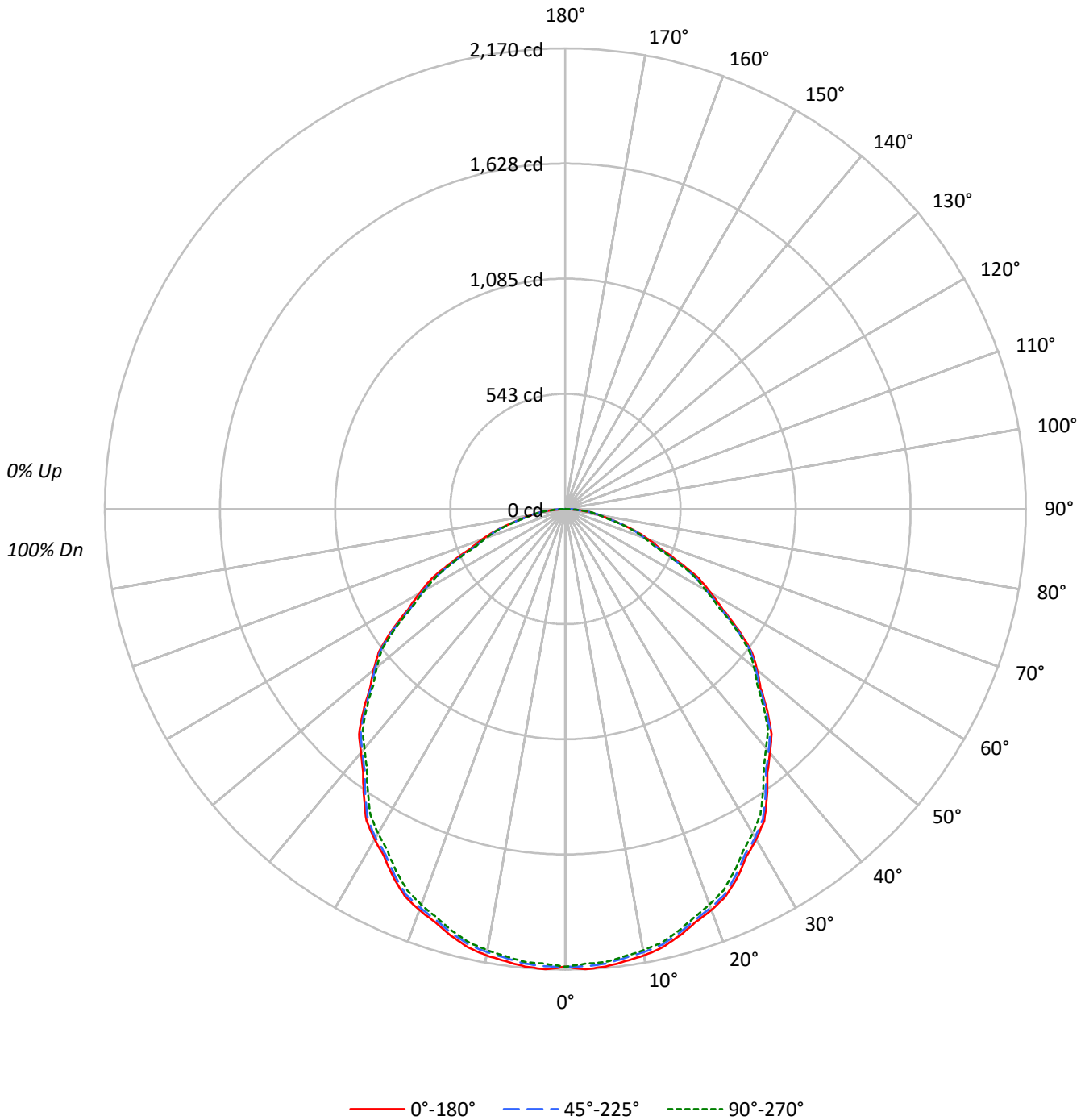
Lumens per Lamp: N/A  
Luminaire Lumens: 5519.9 lumens  
Efficiency: N/A  
Efficacy: 103.4 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Direct

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					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°	6633	6633	6633
5°	6681	6640	6617
10°	6670	6623	6593
15°	6626	6590	6554
20°	6582	6545	6495
25°	6504	6459	6395
30°	6383	6350	6269
35°	6216	6174	6096
40°	6018	5980	5911
45°	5853	5812	5755
50°	5643	5607	5553
55°	5351	5280	5240
60°	4871	4732	4708
65°	4291	4113	4099
70°	3706	3552	3552
75°	3189	3144	3099
80°	2812	2846	2779
85°	2202	2399	2399



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	203.9	3.7
10°-20°	582.3	10.5
20°-30°	872.2	15.8
30°-40°	1023.1	18.5
40°-50°	1026.2	18.6
50°-60°	875.5	15.9
60°-70°	570.9	10.3
70°-80°	286.5	5.2
80°-90°	79.3	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°	1658.4	30.0
0°-40°	2681.5	48.6
0°-60°	4583.2	83.0
0°-90°	5519.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5519.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2157	2157	2157	2157	2157	
5°	2164	2144	2151	2143	2143	206
15°	2081	2061	2070	2062	2058	587
25°	1917	1894	1903	1886	1884	881
35°	1656	1639	1644	1626	1624	1034
45°	1346	1337	1336	1323	1323	1036
55°	998	994	985	979	977	887
65°	590	579	565	561	563	589
75°	268	268	265	263	261	291
85°	62	68	68	68	68	76
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2156.7	2156.7	2156.7	2156.7	2156.7
2.5°	2170.3	2152.5	2156.7	2153.5	2144.6
5°	2164.2	2143.9	2151.0	2143.4	2143.4
7.5°	2149.5	2127.3	2134.4	2126.8	2126.4
10°	2135.9	2113.7	2120.8	2113.2	2111.3
12.5°	2116.2	2094.1	2102.6	2093.5	2093.2
15°	2081.1	2060.7	2069.7	2062.1	2058.4
17.5°	2041.4	2019.2	2030.0	2019.4	2017.9
20°	2011.1	1989.0	1999.8	1984.7	1984.7
22.5°	1974.8	1952.7	1965.0	1945.4	1945.4
25°	1916.6	1894.5	1903.4	1886.3	1884.5
27.5°	1847.4	1825.6	1835.0	1815.7	1815.3
30°	1797.5	1777.2	1788.1	1767.3	1765.4
32.5°	1743.1	1724.3	1732.1	1711.3	1709.5
35°	1655.8	1639.2	1644.4	1625.5	1623.7
37.5°	1563.9	1546.9	1553.0	1536.7	1535.9
40°	1498.9	1487.8	1489.5	1476.1	1472.4
42.5°	1438.4	1425.8	1427.5	1414.2	1413.5
45°	1345.8	1336.6	1336.3	1323.1	1323.1
47.5°	1247.5	1240.5	1238.4	1227.5	1227.1
50°	1179.5	1173.9	1171.9	1162.4	1160.6
52.5°	1108.4	1105.8	1099.3	1091.4	1091.0
55°	998.0	994.3	984.8	979.1	977.2
57.5°	878.2	870.8	860.0	851.7	853.2
60°	792.0	784.6	769.3	765.5	765.5
62.5°	708.8	699.9	684.6	679.4	682.4
65°	589.7	578.6	565.2	561.4	563.3
67.5°	481.6	471.6	457.0	457.0	455.5
70°	412.1	406.5	395.0	395.0	395.0
72.5°	350.1	347.5	339.1	339.1	337.6
75°	268.4	268.4	264.6	262.7	260.8
77.5°	201.1	201.9	200.0	198.0	194.7
80°	158.8	162.5	160.7	158.7	156.9
82.5°	119.5	123.2	122.9	119.5	119.1
85°	62.4	67.9	68.0	68.0	68.0
87.5°	16.6	22.5	24.2	24.2	25.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)