

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: P564836

Luminaire Tested: **SQ4-PW1-0U-075D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564836  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PW1-0U-075D-830-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5364.6 lumens  
Efficiency: N/A  
Efficacy: 98.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Direct

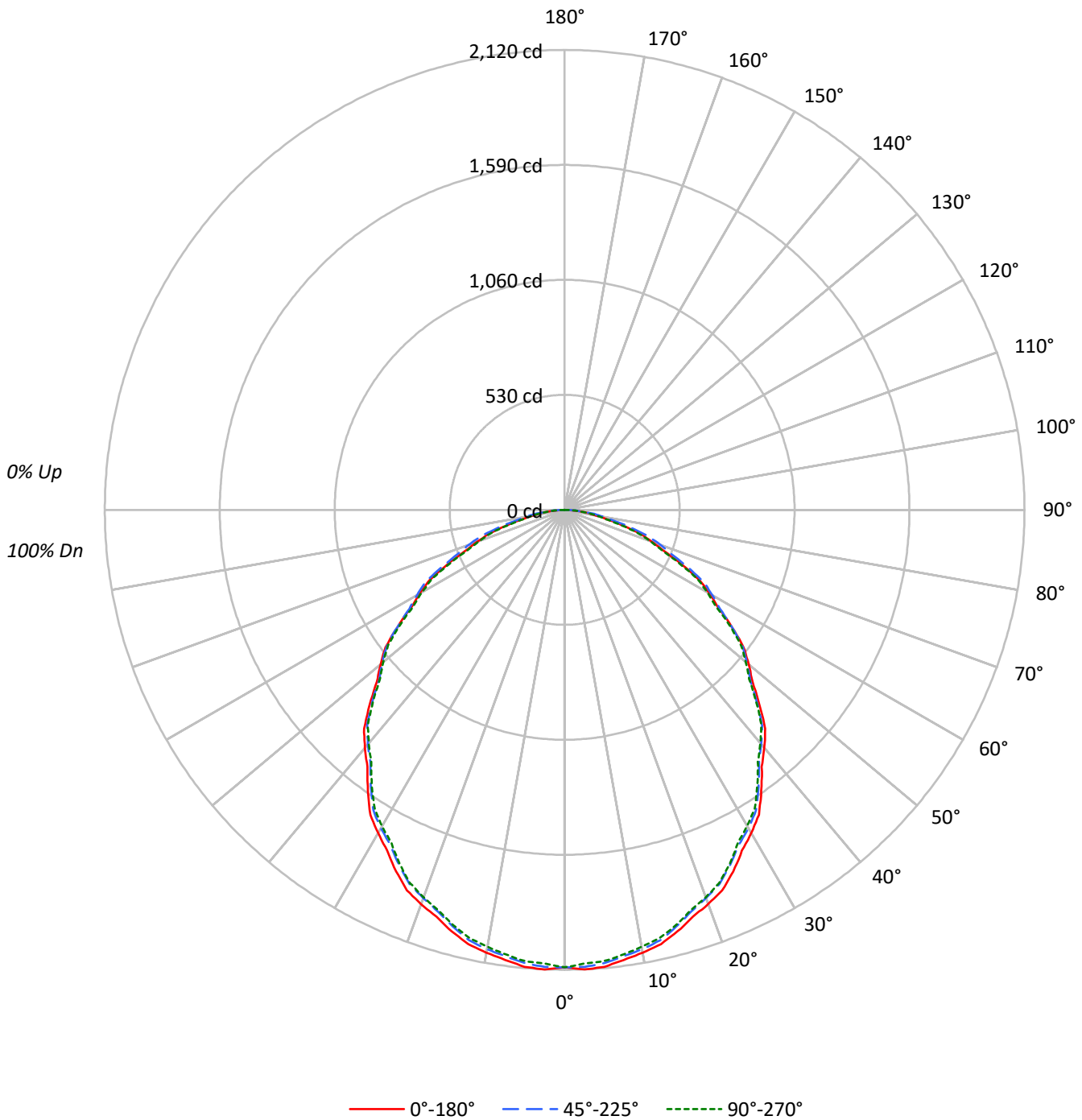
Input Watts (W): 54.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	39	33	28	39	32	28	38	32	28	26

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

	0°	45°	90°
0°	9727	9727	9727
5°	9790	9712	9669
10°	9711	9633	9581
15°	9608	9502	9467
20°	9494	9348	9329
25°	9361	9191	9162
30°	9163	9025	8965
35°	8903	8777	8725
40°	8625	8491	8457
45°	8290	8180	8144
50°	7946	7879	7826
55°	7575	7575	7456
60°	7112	7250	6993
65°	6509	6833	6347
70°	5738	6289	5588
75°	4900	5629	4768
80°	3799	4737	3849
85°	2456	3636	3245



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	198.5	3.7
10°-20°	560.6	10.4
20°-30°	831.5	15.5
30°-40°	972.9	18.1
40°-50°	968.6	18.1
50°-60°	836.4	15.6
60°-70°	602.1	11.2
70°-80°	315.7	5.9
80°-90°	78.3	1.5
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°	1590.6	29.6
0°-40°	2563.5	47.8
0°-60°	4368.5	81.4
0°-90°	5364.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5364.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2108	2108	2108	2108	2108	
5°	2114	2090	2097	2092	2088	200
15°	2012	1986	1990	1986	1982	567
25°	1839	1808	1806	1795	1800	846
35°	1581	1559	1559	1544	1549	988
45°	1271	1260	1254	1250	1248	980
55°	942	940	942	929	927	840
65°	596	614	626	601	582	591
75°	275	300	316	295	268	295
85°	46	61	69	65	61	63
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2108.5	2108.5	2108.5	2108.5	2108.5
2.5°	2120.4	2102.9	2108.5	2103.8	2093.6
5°	2114.1	2090.4	2097.3	2091.7	2088.1
7.5°	2092.5	2070.7	2075.8	2069.8	2067.6
10°	2073.2	2051.4	2056.5	2049.0	2045.3
12.5°	2050.9	2027.6	2032.7	2025.2	2023.0
15°	2011.9	1986.5	1989.6	1985.8	1982.2
17.5°	1966.6	1940.8	1941.3	1935.3	1934.6
20°	1933.9	1906.6	1904.1	1896.8	1900.4
22.5°	1898.2	1869.5	1867.0	1856.7	1861.8
25°	1839.1	1808.2	1805.7	1794.7	1800.1
27.5°	1770.8	1740.2	1740.3	1724.8	1730.6
30°	1720.2	1691.2	1694.2	1675.8	1683.1
32.5°	1666.7	1640.6	1642.2	1623.8	1631.1
35°	1580.9	1559.1	1558.6	1543.9	1549.3
37.5°	1493.2	1474.0	1470.9	1462.4	1463.9
40°	1432.3	1415.9	1410.0	1404.4	1404.4
42.5°	1368.4	1353.5	1347.6	1343.5	1342.0
45°	1270.7	1259.8	1253.9	1250.2	1248.4
47.5°	1174.1	1163.9	1158.8	1156.2	1154.4
50°	1107.2	1099.9	1097.9	1092.3	1090.5
52.5°	1040.3	1036.0	1034.0	1026.9	1025.1
55°	941.9	940.0	941.9	928.8	927.0
57.5°	839.3	842.2	848.2	830.7	826.3
60°	770.9	778.2	785.8	765.2	757.9
62.5°	701.1	712.7	723.4	699.7	689.6
65°	596.3	614.5	626.0	601.4	581.5
67.5°	495.3	517.8	531.7	505.2	482.6
70°	425.4	450.8	466.3	439.7	414.3
72.5°	364.5	392.8	405.3	380.3	354.8
75°	274.9	300.4	315.8	294.8	267.5
77.5°	195.1	219.0	231.8	213.5	191.0
80°	143.0	168.5	178.3	163.1	144.9
82.5°	101.4	122.5	129.3	120.1	107.7
85°	46.4	61.0	68.7	64.9	61.3
87.5°	11.9	22.1	28.2	28.3	29.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)