

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: P564883

Luminaire Tested: **SQ4-PW1-0U-125D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564883  
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-125D-830-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

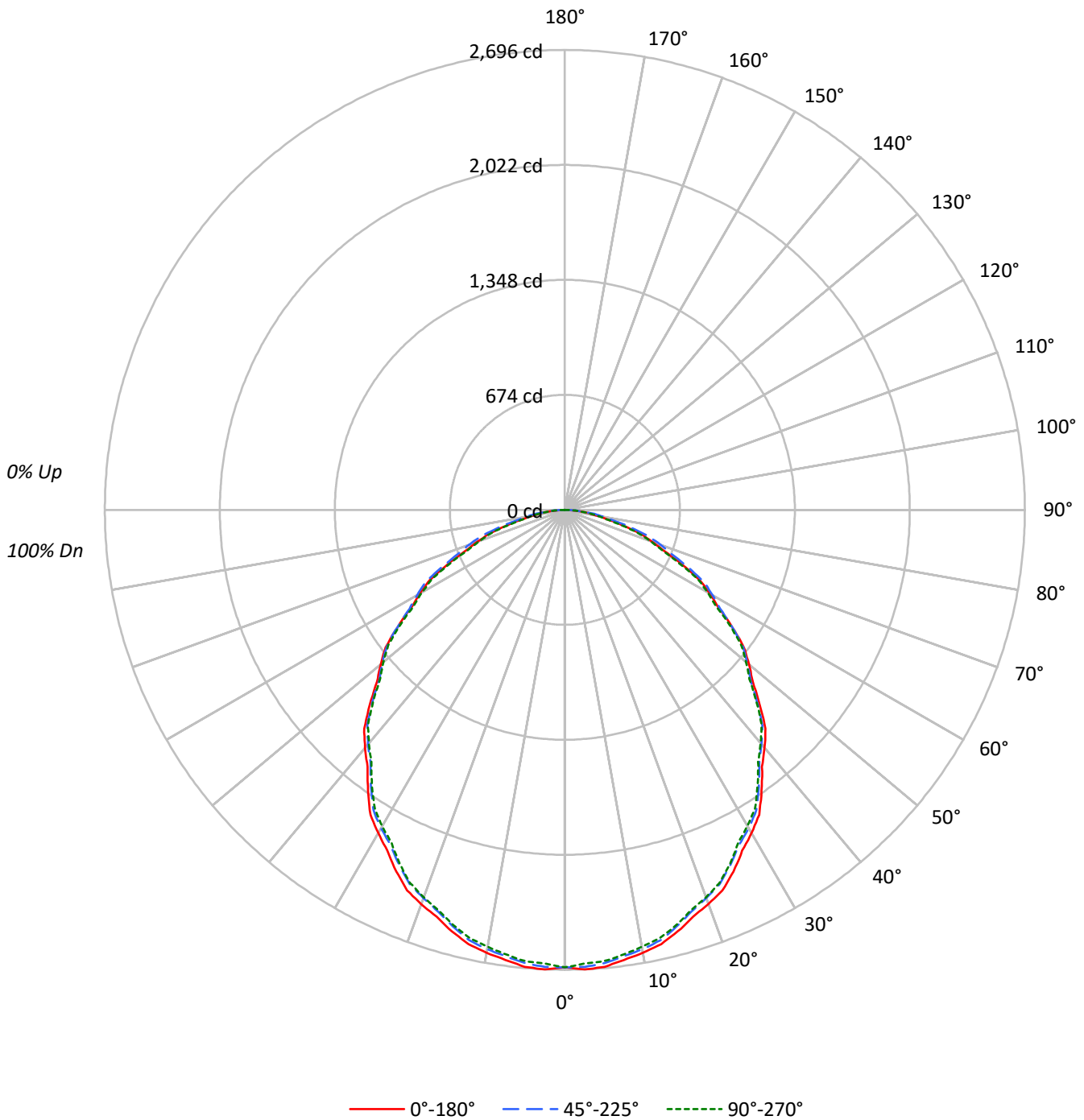
Lumens per Lamp: N/A  
Luminaire Lumens: 6822.1 lumens  
Efficiency: N/A  
Efficacy: 97.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Direct

Input Watts (W): 69.7  
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	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°	16493	16493	16493
5°	16600	16468	16395
10°	16467	16334	16245
15°	16292	16112	16051
20°	16097	15850	15819
25°	15873	15584	15536
30°	15537	15302	15202
35°	15096	14883	14794
40°	14625	14397	14340
45°	14056	13871	13810
50°	13473	13360	13270
55°	12845	12845	12642
60°	12060	12293	11858
65°	11036	11586	10761
70°	9729	10664	9474
75°	8308	9544	8085
80°	6443	8033	6528
85°	4171	6168	5505



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	252.5	3.7
10°-20°	712.9	10.4
20°-30°	1057.4	15.5
30°-40°	1237.3	18.1
40°-50°	1231.7	18.1
50°-60°	1063.7	15.6
60°-70°	765.6	11.2
70°-80°	401.5	5.9
80°-90°	99.5	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°	2022.8	29.6
0°-40°	3260.0	47.8
0°-60°	5555.4	81.4
0°-90°	6822.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6822.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2681	2681	2681	2681	2681	
5°	2688	2658	2667	2660	2655	255
15°	2558	2526	2530	2525	2521	721
25°	2339	2300	2296	2282	2289	1075
35°	2010	1983	1982	1963	1970	1257
45°	1616	1602	1595	1590	1588	1247
55°	1198	1195	1198	1181	1179	1069
65°	758	781	796	765	739	751
75°	350	382	402	375	340	375
85°	59	78	87	83	78	80
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2681.4	2681.4	2681.4	2681.4	2681.4
2.5°	2696.5	2674.3	2681.4	2675.4	2662.5
5°	2688.5	2658.4	2667.2	2660.0	2655.4
7.5°	2661.1	2633.3	2639.8	2632.2	2629.4
10°	2636.5	2608.8	2615.2	2605.7	2601.0
12.5°	2608.1	2578.6	2585.0	2575.5	2572.7
15°	2558.5	2526.2	2530.2	2525.3	2520.7
17.5°	2500.9	2468.1	2468.7	2461.2	2460.2
20°	2459.3	2424.6	2421.5	2412.2	2416.8
22.5°	2413.9	2377.4	2374.3	2361.2	2367.6
25°	2338.8	2299.5	2296.3	2282.3	2289.2
27.5°	2251.9	2213.1	2213.1	2193.5	2200.8
30°	2187.6	2150.7	2154.5	2131.1	2140.4
32.5°	2119.6	2086.3	2088.4	2065.0	2074.2
35°	2010.4	1982.7	1982.1	1963.3	1970.3
37.5°	1898.9	1874.4	1870.6	1859.8	1861.6
40°	1821.4	1800.7	1793.1	1786.0	1786.0
42.5°	1740.2	1721.2	1713.7	1708.5	1706.6
45°	1615.9	1602.0	1594.6	1589.9	1587.6
47.5°	1493.1	1480.1	1473.7	1470.3	1468.0
50°	1408.0	1398.8	1396.2	1389.1	1386.8
52.5°	1323.0	1317.4	1314.9	1305.9	1303.6
55°	1197.8	1195.4	1197.8	1181.2	1178.9
57.5°	1067.3	1071.0	1078.7	1056.4	1050.8
60°	980.4	989.7	999.3	973.1	963.9
62.5°	891.6	906.4	919.9	889.9	876.9
65°	758.3	781.4	796.1	764.9	739.4
67.5°	629.8	658.5	676.1	642.4	613.8
70°	541.0	573.3	593.0	559.2	526.8
72.5°	463.5	499.5	515.5	483.6	451.2
75°	349.6	382.0	401.6	374.8	340.2
77.5°	248.1	278.5	294.8	271.5	242.9
80°	181.9	214.2	226.8	207.4	184.3
82.5°	129.0	155.8	164.4	152.7	137.0
85°	59.1	77.5	87.4	82.6	78.0
87.5°	15.1	28.1	35.9	36.0	37.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)