

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: P564849

Luminaire Tested: **SQ4-PW1-0U-075D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564849  
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-935-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

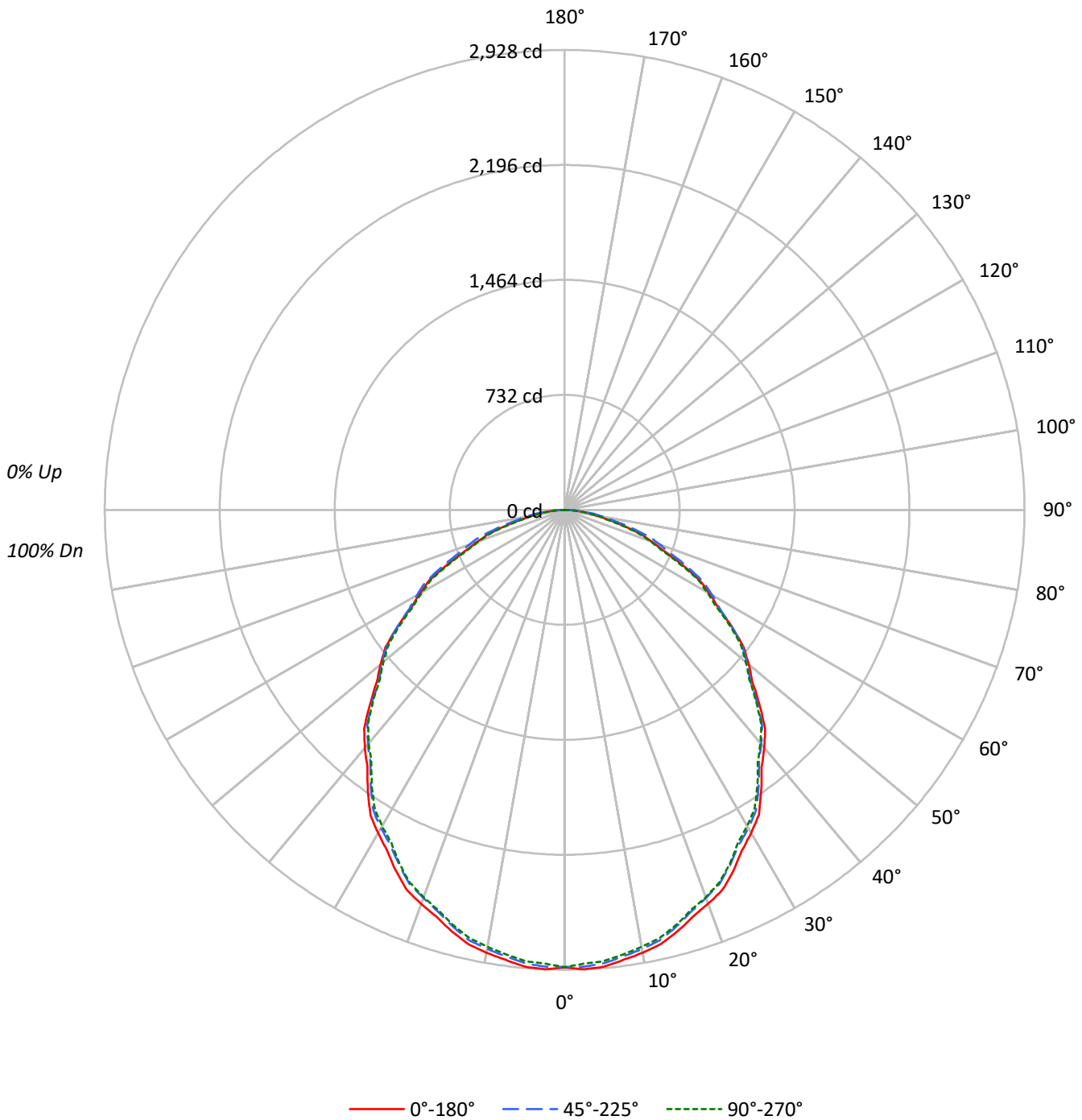
Lumens per Lamp: N/A  
Luminaire Lumens: 7407.4 lumens  
Efficiency: N/A  
Efficacy: 93.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Direct

Input Watts (W): 79.4  
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°	8954	8954	8954
5°	9012	8940	8901
10°	8940	8868	8820
15°	8845	8747	8714
20°	8739	8605	8588
25°	8617	8461	8434
30°	8435	8308	8253
35°	8195	8080	8032
40°	7940	7816	7785
45°	7631	7531	7497
50°	7315	7253	7204
55°	6973	6973	6863
60°	6548	6674	6437
65°	5992	6291	5843
70°	5282	5789	5143
75°	4511	5182	4389
80°	3498	4362	3544
85°	2262	3349	2985



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	274.2	3.7
10°-20°	774.0	10.4
20°-30°	1148.1	15.5
30°-40°	1343.4	18.1
40°-50°	1337.4	18.1
50°-60°	1154.9	15.6
60°-70°	831.3	11.2
70°-80°	435.9	5.9
80°-90°	108.1	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°	2196.3	29.6
0°-40°	3539.7	47.8
0°-60°	6032.1	81.4
0°-90°	7407.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7407.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2911	2911	2911	2911	2911	
5°	2919	2886	2896	2888	2883	276
15°	2778	2743	2747	2742	2737	783
25°	2540	2497	2493	2478	2486	1168
35°	2183	2153	2152	2132	2139	1365
45°	1755	1740	1732	1726	1724	1354
55°	1300	1298	1300	1282	1280	1160
65°	823	848	864	830	803	816
75°	380	415	436	407	369	407
85°	64	84	95	90	85	87
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2911.4	2911.4	2911.4	2911.4	2911.4
2.5°	2927.8	2903.8	2911.4	2905.0	2890.9
5°	2919.1	2886.5	2896.0	2888.2	2883.2
7.5°	2889.4	2859.3	2866.3	2858.0	2855.0
10°	2862.7	2832.6	2839.6	2829.2	2824.2
12.5°	2831.9	2799.8	2806.8	2796.4	2793.4
15°	2778.0	2742.9	2747.3	2742.0	2737.0
17.5°	2715.5	2679.8	2680.6	2672.3	2671.3
20°	2670.3	2632.7	2629.3	2619.1	2624.1
22.5°	2621.1	2581.4	2578.0	2563.8	2570.8
25°	2539.5	2496.8	2493.3	2478.1	2485.6
27.5°	2445.1	2403.0	2403.0	2381.7	2389.7
30°	2375.3	2335.2	2339.4	2314.0	2324.0
32.5°	2301.4	2265.3	2267.6	2242.2	2252.2
35°	2182.9	2152.8	2152.1	2131.8	2139.3
37.5°	2061.9	2035.3	2031.1	2019.3	2021.3
40°	1977.7	1955.1	1946.9	1939.2	1939.2
42.5°	1889.5	1868.9	1860.7	1855.1	1853.1
45°	1754.6	1739.5	1731.5	1726.3	1723.8
47.5°	1621.2	1607.1	1600.1	1596.5	1594.0
50°	1528.8	1518.8	1516.0	1508.2	1505.7
52.5°	1436.5	1430.5	1427.8	1417.9	1415.4
55°	1300.5	1298.0	1300.5	1282.5	1280.0
57.5°	1158.9	1162.9	1171.2	1147.0	1141.0
60°	1064.5	1074.6	1085.1	1056.6	1046.6
62.5°	968.1	984.1	998.9	966.2	952.2
65°	823.4	848.5	864.5	830.5	802.9
67.5°	683.9	715.0	734.1	697.5	666.4
70°	587.4	622.5	643.8	607.1	572.0
72.5°	503.3	542.4	559.7	525.1	489.9
75°	379.6	414.8	436.1	407.0	369.4
77.5°	269.3	302.4	320.1	294.8	263.7
80°	197.5	232.6	246.3	225.2	200.1
82.5°	140.1	169.2	178.5	165.8	148.8
85°	64.1	84.2	94.9	89.7	84.6
87.5°	16.4	30.5	39.0	39.0	41.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)