

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: P564853

Luminaire Tested: **SQ4-PW1-0U-075D-940-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564853  
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-940-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

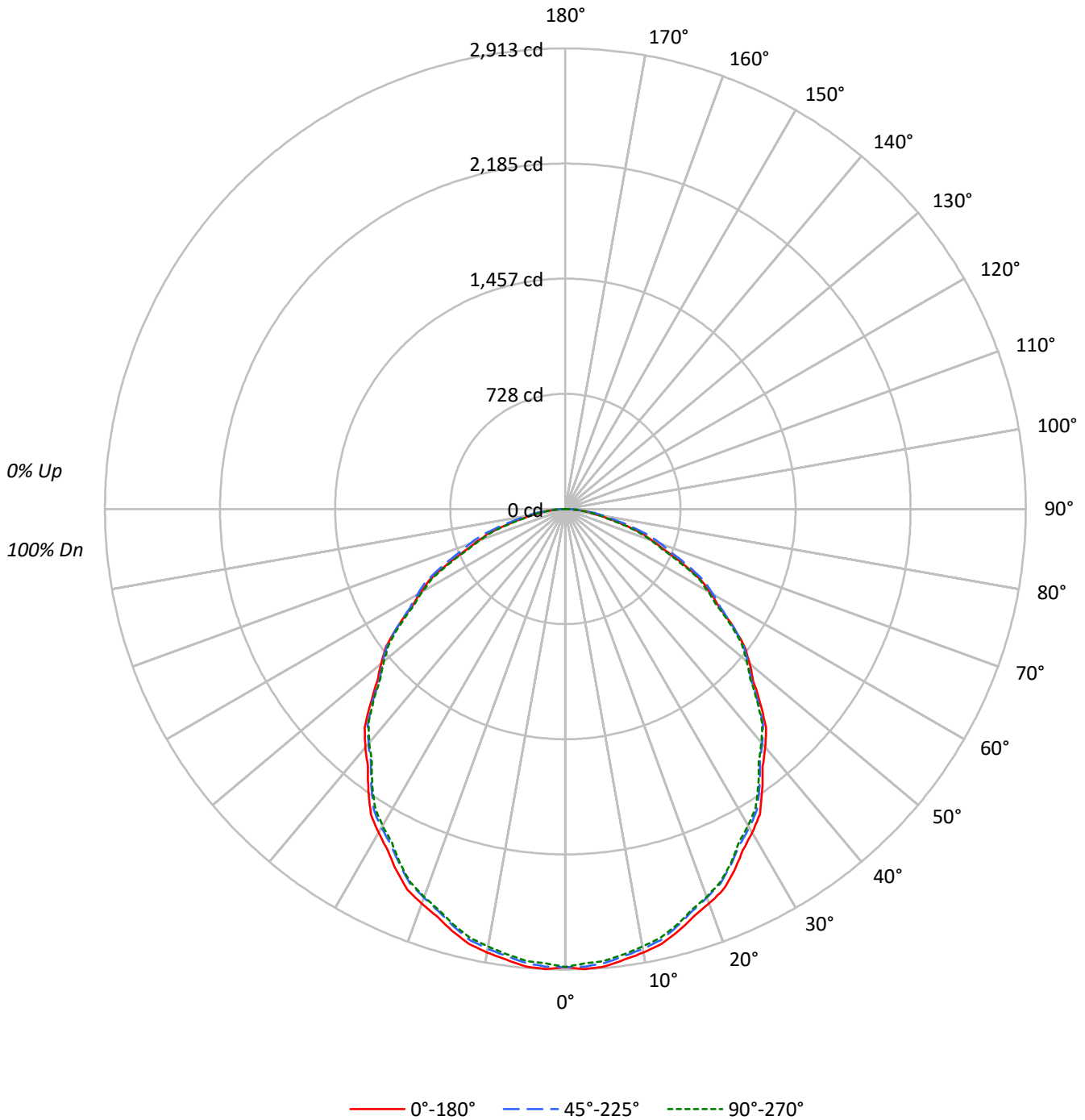
Lumens per Lamp: N/A  
Luminaire Lumens: 7369.8 lumens  
Efficiency: N/A  
Efficacy: 92.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Direct

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°	8908	8908	8908
5°	8966	8895	8856
10°	8894	8823	8775
15°	8800	8703	8670
20°	8695	8561	8545
25°	8574	8418	8392
30°	8392	8265	8211
35°	8154	8039	7991
40°	7900	7777	7746
45°	7592	7492	7459
50°	7278	7216	7168
55°	6938	6938	6828
60°	6514	6640	6405
65°	5961	6259	5813
70°	5255	5760	5117
75°	4488	5156	4367
80°	3480	4339	3526
85°	2251	3331	2971



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	272.8	3.7
10°-20°	770.1	10.4
20°-30°	1142.3	15.5
30°-40°	1336.6	18.1
40°-50°	1330.6	18.1
50°-60°	1149.0	15.6
60°-70°	827.1	11.2
70°-80°	433.7	5.9
80°-90°	107.5	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°	2185.1	29.6
0°-40°	3521.8	47.8
0°-60°	6001.4	81.4
0°-90°	7369.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7369.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2897	2897	2897	2897	2897	
5°	2904	2872	2881	2874	2869	275
15°	2764	2729	2733	2728	2723	779
25°	2527	2484	2481	2466	2473	1162
35°	2172	2142	2141	2121	2128	1358
45°	1746	1731	1723	1718	1715	1347
55°	1294	1291	1294	1276	1274	1154
65°	819	844	860	826	799	812
75°	378	413	434	405	368	405
85°	64	84	94	89	84	86
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2896.6	2896.6	2896.6	2896.6	2896.6
2.5°	2913.0	2889.0	2896.6	2890.2	2876.2
5°	2904.3	2871.9	2881.3	2873.6	2868.6
7.5°	2874.7	2844.8	2851.7	2843.5	2840.5
10°	2848.2	2818.2	2825.2	2814.9	2809.9
12.5°	2817.5	2785.6	2792.5	2782.2	2779.2
15°	2763.9	2729.0	2733.3	2728.1	2723.1
17.5°	2701.7	2666.2	2667.0	2658.8	2657.8
20°	2656.7	2619.3	2615.9	2605.8	2610.8
22.5°	2607.7	2568.3	2564.9	2550.7	2557.7
25°	2526.6	2484.2	2480.7	2465.5	2473.0
27.5°	2432.7	2390.7	2390.8	2369.6	2377.5
30°	2363.3	2323.3	2327.5	2302.2	2312.2
32.5°	2289.8	2253.8	2256.1	2230.8	2240.8
35°	2171.8	2141.9	2141.2	2121.0	2128.5
37.5°	2051.4	2024.9	2020.8	2009.1	2011.1
40°	1967.7	1945.2	1937.1	1929.4	1929.4
42.5°	1879.9	1859.4	1851.3	1845.6	1843.6
45°	1745.6	1730.7	1722.7	1717.5	1715.0
47.5°	1612.9	1599.0	1592.0	1588.4	1585.9
50°	1521.1	1511.1	1508.3	1500.6	1498.1
52.5°	1429.2	1423.2	1420.5	1410.7	1408.3
55°	1293.9	1291.4	1293.9	1276.0	1273.5
57.5°	1153.0	1157.0	1165.3	1141.2	1135.2
60°	1059.1	1069.1	1079.5	1051.2	1041.3
62.5°	963.2	979.1	993.8	961.3	947.3
65°	819.2	844.2	860.1	826.3	798.8
67.5°	680.4	711.3	730.4	694.0	663.0
70°	584.4	619.4	640.6	604.1	569.1
72.5°	500.7	539.7	556.9	522.4	487.5
75°	377.7	412.6	433.9	404.9	367.5
77.5°	268.0	300.9	318.5	293.3	262.4
80°	196.5	231.4	245.0	224.0	199.1
82.5°	139.3	168.3	177.6	165.0	148.0
85°	63.8	83.8	94.4	89.2	84.2
87.5°	16.3	30.3	38.8	38.8	40.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)