

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: P564183

Luminaire Tested: **SQ4-PR1-0U-075D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564183  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PR1-0U-075D-940-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

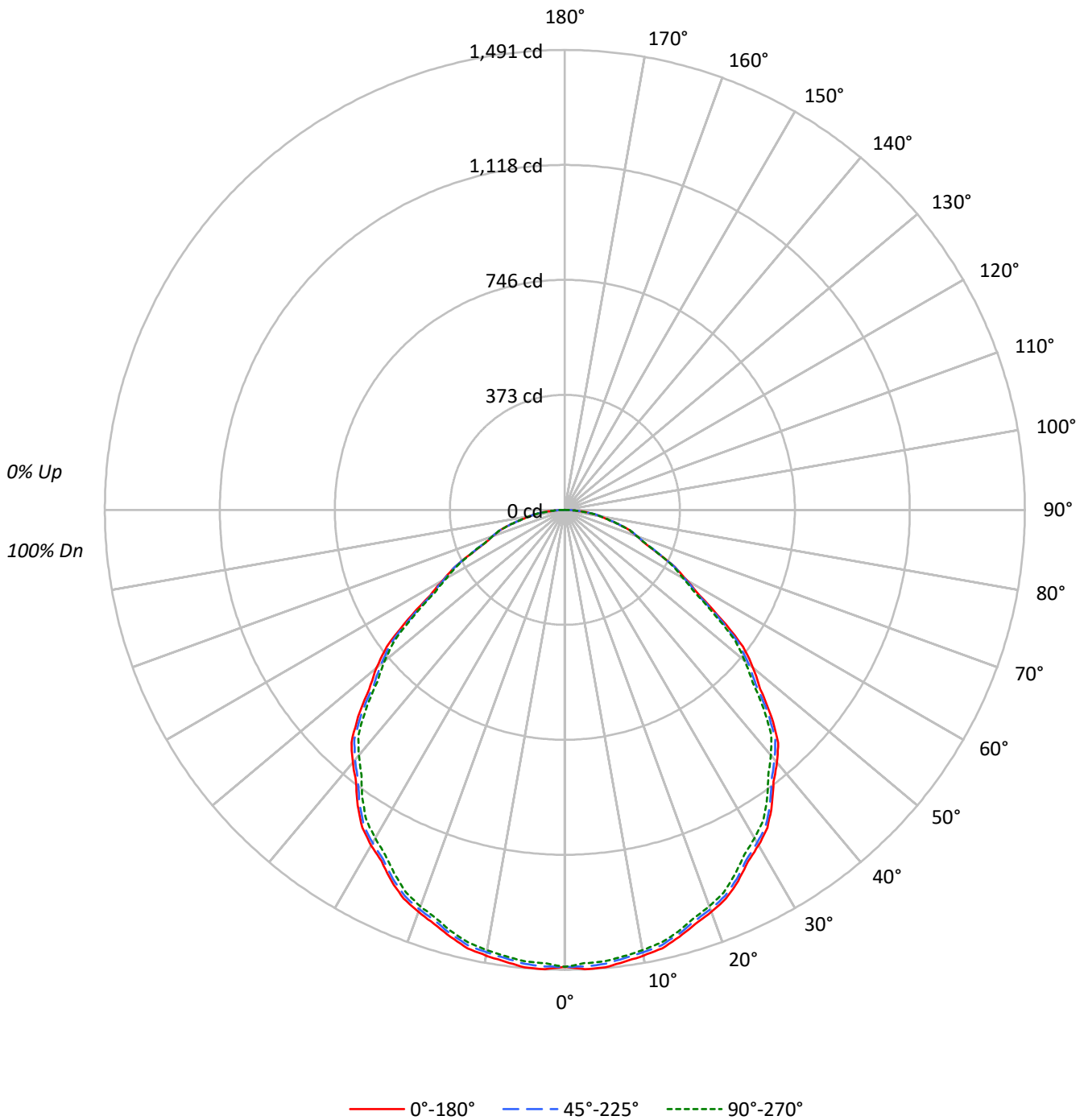
Lumens per Lamp: N/A  
Luminaire Lumens: 3703.6 lumens  
Efficiency: N/A  
Efficacy: 91.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Direct

Input Watts (W): 40.4  
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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85				
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72				
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62				
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54				
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47				
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41				
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37				
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33				
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30				
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27				

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

	0°	45°	90°
0°	9112	9112	9112
5°	9195	9124	9076
10°	9166	9102	9054
15°	9125	9068	9019
20°	9079	9020	8954
25°	9015	8954	8850
30°	8918	8854	8727
35°	8786	8709	8585
40°	8586	8493	8340
45°	8236	8091	7925
50°	7620	7436	7290
55°	6651	6500	6363
60°	5605	5557	5447
65°	4846	4865	4829
70°	4453	4474	4474
75°	4275	4275	4306
80°	4024	4066	4024
85°	3239	3599	3599



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.1	3.8
10°-20°	400.8	10.8
20°-30°	604.6	16.3
30°-40°	720.4	19.5
40°-50°	710.2	19.2
50°-60°	542.8	14.7
60°-70°	335.9	9.1
70°-80°	190.8	5.2
80°-90°	58.0	1.6
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°	1145.5	30.9
0°-40°	1865.9	50.4
0°-60°	3118.9	84.2
0°-90°	3703.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3703.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1482	1482	1482	1482	1482	
5°	1489	1473	1478	1472	1470	141
15°	1433	1418	1424	1419	1416	404
25°	1328	1312	1319	1305	1304	611
35°	1170	1156	1160	1145	1143	730
45°	947	934	930	914	911	725
55°	620	610	606	596	593	556
65°	333	331	334	332	332	337
75°	180	180	180	181	181	190
85°	46	48	51	51	51	55
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1481.5	1481.5	1481.5	1481.5	1481.5
2.5°	1490.7	1477.7	1481.5	1478.3	1471.3
5°	1489.2	1472.9	1477.7	1472.5	1470.0
7.5°	1477.7	1461.7	1466.4	1461.3	1459.8
10°	1467.5	1452.5	1457.3	1452.1	1449.6
12.5°	1456.2	1440.3	1446.0	1439.8	1437.3
15°	1433.0	1418.0	1424.1	1418.9	1416.4
17.5°	1407.5	1391.5	1397.5	1391.6	1388.3
20°	1387.1	1372.1	1378.1	1369.2	1367.9
22.5°	1364.6	1349.6	1355.7	1343.7	1343.4
25°	1328.4	1312.1	1319.4	1305.4	1304.1
27.5°	1285.2	1270.3	1276.3	1262.0	1260.5
30°	1255.6	1240.7	1246.7	1231.3	1228.8
32.5°	1221.9	1208.0	1213.0	1197.7	1196.2
35°	1170.1	1156.4	1159.9	1144.6	1143.3
37.5°	1111.2	1098.7	1100.7	1083.8	1082.6
40°	1069.3	1056.9	1057.8	1040.0	1038.7
42.5°	1023.4	1010.9	1009.9	992.0	990.7
45°	946.8	934.4	930.2	913.6	911.1
47.5°	859.5	847.1	839.4	825.8	824.1
50°	796.3	783.8	777.1	765.5	761.8
52.5°	727.9	715.4	709.7	699.2	695.4
55°	620.2	610.2	606.1	595.9	593.4
57.5°	517.8	511.1	509.9	499.9	498.9
60°	455.6	451.8	451.7	442.8	442.8
62.5°	402.5	399.7	401.7	395.8	394.8
65°	333.0	330.6	334.3	331.8	331.8
67.5°	278.2	278.2	280.5	279.5	279.5
70°	247.6	247.6	248.8	248.8	248.8
72.5°	220.0	219.0	222.3	222.3	221.3
75°	179.9	179.9	179.9	181.2	181.2
77.5°	140.1	140.4	141.4	141.1	140.1
80°	113.6	114.8	114.8	113.6	113.6
82.5°	87.0	88.3	88.3	88.0	87.0
85°	45.9	48.4	51.0	51.0	51.0
87.5°	13.3	17.3	20.4	20.4	19.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)