

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: P520082

Luminaire Tested: **SQ4-F-0U-050D-835-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P520082  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/29/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-F-0U-050D-835-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 500 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

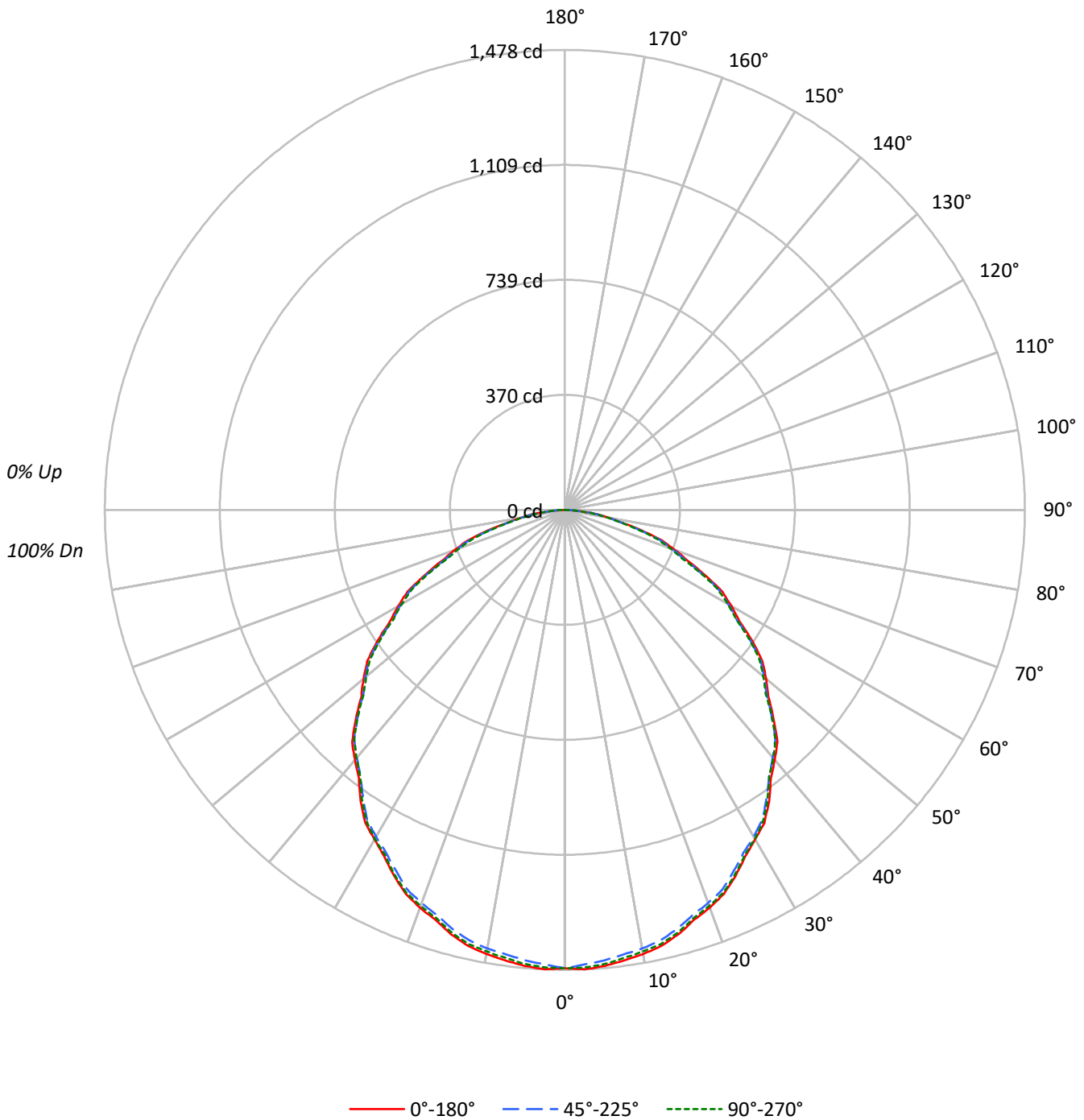
Lumens per Lamp: N/A  
Luminaire Lumens: 4020.7 lumens  
Efficiency: N/A  
Efficacy: 120.0 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.5  
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				100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84				84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70				70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59				59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51				51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44				44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38				38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34				34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30				30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27				27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25				25

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

	0°	45°	90°
0°	6796	6796	6796
5°	6813	6730	6785
10°	6790	6707	6753
15°	6743	6659	6715
20°	6680	6603	6651
25°	6605	6525	6585
30°	6513	6460	6502
35°	6441	6364	6397
40°	6318	6259	6271
45°	6189	6137	6137
50°	6058	6001	5972
55°	5916	5837	5805
60°	5695	5604	5568
65°	5425	5317	5253
70°	5054	4947	4841
75°	4534	4394	4288
80°	3666	3616	3509
85°	2191	2504	2609



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.0	3.5
10°-20°	395.8	9.8
20°-30°	594.5	14.8
30°-40°	709.7	17.7
40°-50°	727.2	18.1
50°-60°	648.6	16.1
60°-70°	483.0	12.0
70°-80°	262.2	6.5
80°-90°	60.7	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°	1129.3	28.1
0°-40°	1839.0	45.7
0°-60°	3214.8	80.0
0°-90°	4020.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4020.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1473	1473	1473	1473	1473	
5°	1471	1469	1453	1467	1465	140
15°	1412	1408	1394	1406	1406	398
25°	1298	1294	1282	1290	1294	598
35°	1144	1140	1130	1130	1136	714
45°	949	951	941	939	941	732
55°	736	736	726	720	722	655
65°	497	495	487	481	481	492
75°	254	252	246	243	241	269
85°	41	45	47	49	49	59
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1473.2	1473.2	1473.2	1473.2	1473.2
2.5°	1477.9	1474.8	1462.1	1473.2	1471.6
5°	1471.2	1469.2	1453.4	1467.3	1465.3
7.5°	1460.5	1456.7	1441.2	1454.6	1452.7
10°	1449.5	1445.7	1431.8	1443.6	1441.6
12.5°	1435.3	1433.0	1417.6	1429.4	1429.0
15°	1412.0	1408.2	1394.3	1406.1	1406.1
17.5°	1381.3	1379.0	1365.5	1376.9	1375.4
20°	1360.8	1356.9	1345.0	1354.8	1354.8
22.5°	1335.5	1333.2	1321.3	1329.6	1331.2
25°	1297.7	1293.8	1281.9	1289.9	1293.7
27.5°	1255.8	1252.8	1242.8	1248.1	1250.7
30°	1222.7	1222.7	1212.8	1214.9	1220.7
32.5°	1192.7	1192.7	1181.3	1183.4	1186.0
35°	1143.8	1140.0	1130.0	1130.1	1135.9
37.5°	1087.0	1085.1	1078.7	1077.6	1079.1
40°	1049.2	1047.2	1039.3	1041.3	1041.3
42.5°	1011.3	1009.3	1001.4	998.8	1001.8
45°	948.6	950.6	940.7	938.7	940.7
47.5°	886.7	886.7	878.8	873.4	876.4
50°	844.1	844.1	836.2	832.2	832.2
52.5°	799.9	801.5	792.0	786.5	788.1
55°	735.6	735.6	725.7	719.8	721.8
57.5°	664.6	664.6	654.7	648.9	652.4
60°	617.3	617.3	607.4	601.5	603.5
62.5°	569.9	569.9	560.1	554.2	554.6
65°	497.0	495.0	487.1	481.2	481.2
67.5°	426.8	421.7	415.7	407.8	407.8
70°	374.7	372.7	366.8	358.9	358.9
72.5°	327.4	323.9	317.9	311.6	311.6
75°	254.4	252.4	246.5	242.6	240.6
77.5°	182.2	180.6	180.3	174.7	176.3
80°	138.0	138.0	136.1	132.1	132.1
82.5°	98.6	100.2	96.6	95.8	94.3
85°	41.4	45.3	47.3	49.3	49.3
87.5°	7.9	12.5	11.0	12.6	12.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)