

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: P520105

Luminaire Tested: **SQ4-F-0U-075D-835-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P520105  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/29/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-F-0U-075D-835-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 750 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

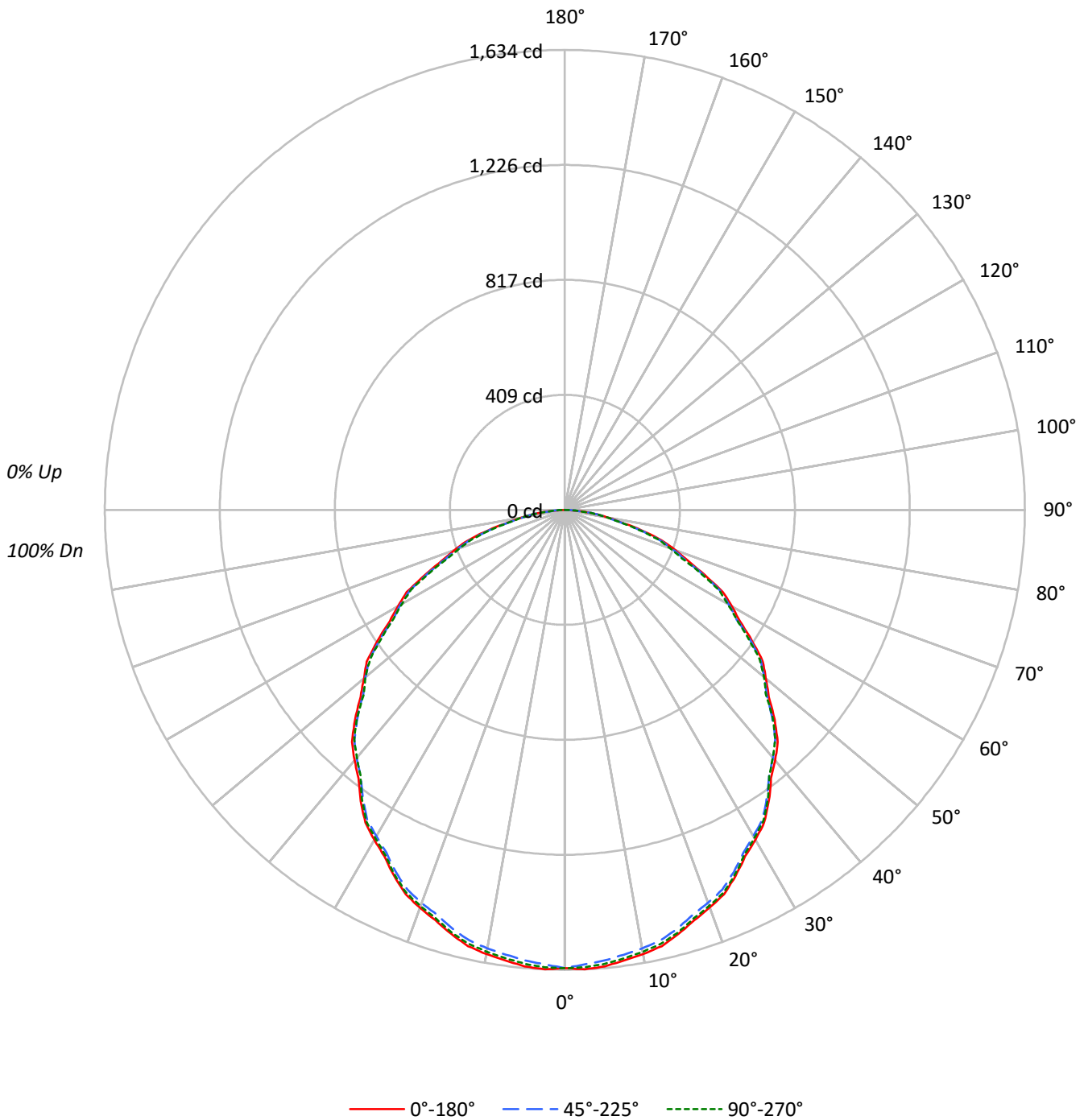
Lumens per Lamp: N/A  
Luminaire Lumens: 4444.7 lumens  
Efficiency: N/A  
Efficacy: 118.5 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Direct

Input Watts (W): 37.5  
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



TEST NUMBER: P520105  
CATALOG NUMBER: SQ4-F-0U-075D-835-1D-UNV-STD-W-6

### Luminous Intensity Polar Plot





TEST NUMBER: P520105

CATALOG NUMBER: SQ4-F-0U-075D-835-1D-UNV-STD-W-6

**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°	10014	10014	10014
5°	10052	9925	9998
10°	10012	9883	9957
15°	9935	9813	9897
20°	9845	9729	9807
25°	9737	9637	9707
30°	9614	9509	9561
35°	9487	9387	9432
40°	9328	9233	9221
45°	9167	9052	9078
50°	8913	8842	8842
55°	8706	8595	8516
60°	8425	8280	8208
65°	7970	7820	7712
70°	7487	7300	7114
75°	6735	6490	6350
80°	5384	5281	5228
85°	3232	3649	3747



TEST NUMBER: P520105

CATALOG NUMBER: SQ4-F-0U-075D-835-1D-UNV-STD-W-6

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.7	3.5
10°-20°	437.5	9.8
20°-30°	657.3	14.8
30°-40°	784.3	17.6
40°-50°	804.3	18.1
50°-60°	716.7	16.1
60°-70°	534.4	12.0
70°-80°	289.8	6.5
80°-90°	66.6	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°	1248.5	28.1
0°-40°	2032.8	45.7
0°-60°	3553.9	80.0
0°-90°	4444.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4444.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1628	1628	1628	1628	1628	
5°	1628	1625	1608	1621	1619	154
15°	1560	1557	1541	1553	1554	440
25°	1435	1433	1420	1428	1430	661
35°	1264	1261	1250	1250	1256	789
45°	1054	1050	1041	1041	1044	811
55°	812	810	802	794	794	725
65°	548	548	537	531	530	545
75°	283	278	273	269	267	298
85°	46	49	52	52	53	64
90°	0	0	0	0	0	



TEST NUMBER: P520105

CATALOG NUMBER: SQ4-F-0U-075D-835-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1628.1	1628.1	1628.1	1628.1	1628.1
2.5°	1634.0	1630.6	1616.3	1628.1	1626.9
5°	1628.1	1625.3	1607.5	1620.7	1619.3
7.5°	1614.8	1611.7	1594.2	1607.5	1607.2
10°	1603.0	1598.7	1582.4	1595.7	1594.2
12.5°	1587.7	1583.4	1567.0	1580.3	1578.8
15°	1560.2	1557.4	1541.0	1552.8	1554.3
17.5°	1528.9	1523.4	1508.9	1520.4	1521.9
20°	1504.1	1499.8	1486.4	1496.8	1498.2
22.5°	1478.2	1473.8	1460.4	1470.8	1472.3
25°	1434.8	1433.3	1420.0	1427.5	1430.3
27.5°	1387.8	1383.8	1373.1	1378.8	1381.6
30°	1353.6	1350.7	1338.8	1343.3	1346.2
32.5°	1318.1	1316.4	1305.8	1307.9	1312.0
35°	1263.5	1260.7	1250.2	1250.3	1256.2
37.5°	1203.0	1199.9	1191.2	1189.8	1192.1
40°	1161.7	1157.4	1149.9	1148.4	1148.4
42.5°	1119.2	1116.0	1106.2	1103.6	1107.1
45°	1053.9	1049.6	1040.6	1040.7	1043.6
47.5°	983.4	981.6	971.3	966.5	967.7
50°	931.4	934.3	924.0	918.2	924.0
52.5°	886.5	884.8	875.6	869.8	872.1
55°	811.9	810.4	801.5	794.1	794.1
57.5°	736.9	733.1	723.9	718.4	722.7
60°	684.9	683.4	673.1	662.9	667.2
62.5°	632.9	630.4	620.0	613.3	616.4
65°	547.6	547.6	537.3	531.4	529.9
67.5°	472.9	466.1	460.2	453.2	451.1
70°	416.3	410.5	405.9	399.9	395.6
72.5°	360.8	357.3	350.4	344.5	343.6
75°	283.4	277.6	273.1	268.6	267.2
77.5°	201.6	200.5	196.3	194.0	194.8
80°	152.0	152.0	149.1	149.1	147.6
82.5°	107.2	108.3	107.8	105.4	105.1
85°	45.8	48.6	51.7	51.7	53.1
87.5°	8.3	14.1	13.0	13.0	13.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)