

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: P519876

Luminaire Tested: **SQ4-F-025U-125D-935-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519876  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G3-1910-536-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/29/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-F-025U-125D-935-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

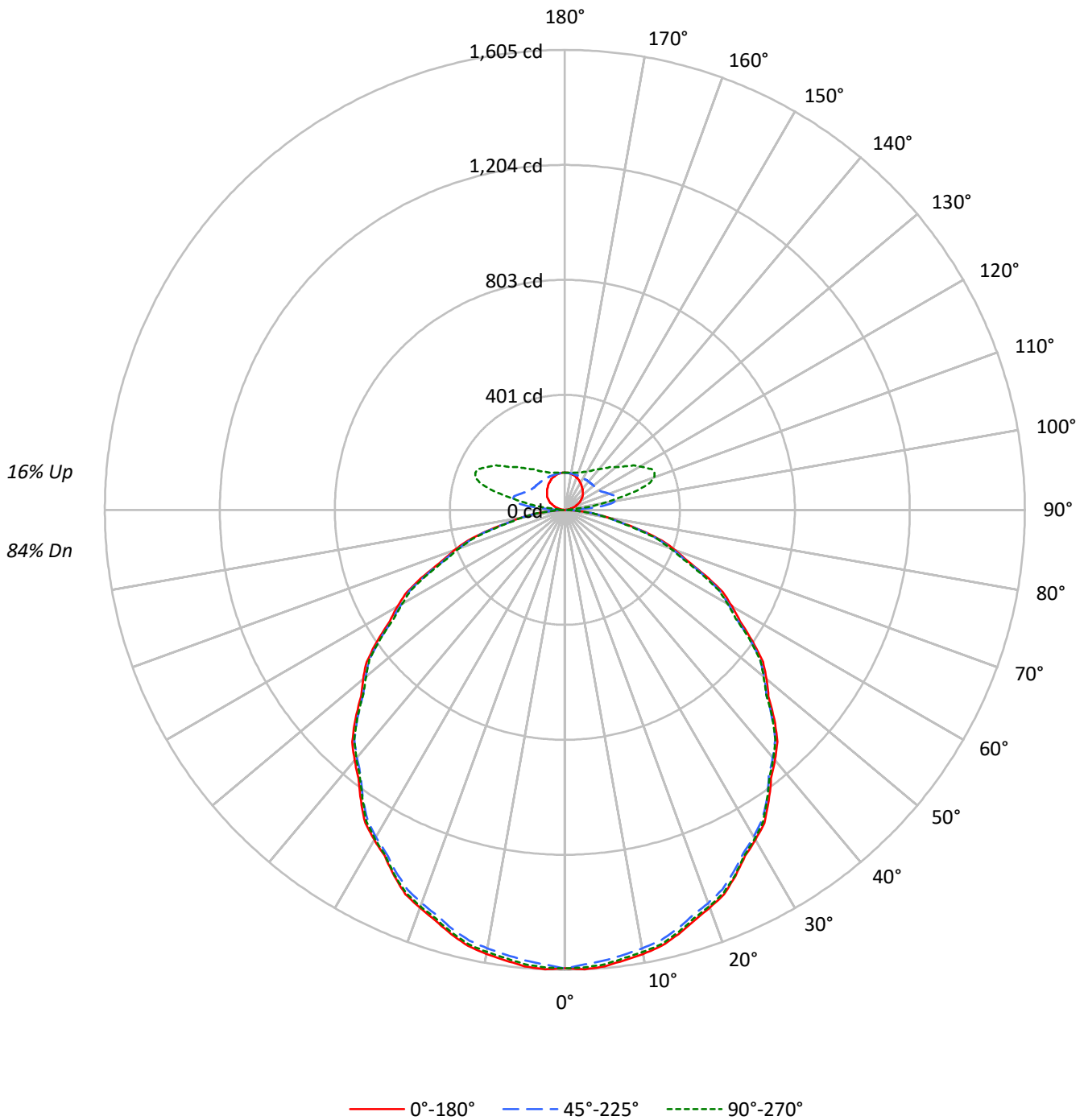
Lumens per Lamp: N/A  
Luminaire Lumens: 5205.6 lumens  
Efficiency: N/A  
Efficacy: 105.2 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 49.5  
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	0
RCR																		
0	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	84
1	105	101	97	93	101	97	93	90	90	87	84	83	81	79	77	75	74	71
2	96	88	81	76	92	85	79	74	79	74	70	73	69	66	68	65	62	59
3	87	77	69	63	84	74	67	62	69	63	58	64	60	55	60	56	53	50
4	80	68	60	53	77	66	58	52	62	55	50	57	52	47	53	49	45	43
5	74	61	52	46	70	59	51	45	55	48	43	52	46	41	48	43	39	37
6	68	55	46	40	65	53	45	39	50	43	38	47	41	36	44	39	35	32
7	63	50	41	35	60	48	40	35	45	38	33	42	36	32	40	35	31	28
8	58	45	37	31	56	44	36	31	41	35	30	39	33	29	37	31	27	25
9	55	42	34	28	52	40	33	28	38	31	27	36	30	26	34	29	25	23
10	51	38	31	25	49	37	30	25	35	29	24	33	27	23	31	26	23	21

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

	0°	45°	90°
0°	14763	14763	14763
5°	14811	14624	14746
10°	14743	14562	14678
15°	14644	14468	14586
20°	14509	14345	14456
25°	14344	14192	14308
30°	14166	14045	14120
35°	13965	13847	13856
40°	13735	13587	13629
45°	13478	13328	13352
50°	13185	13031	12994
55°	12849	12664	12637
60°	12431	12155	12090
65°	11784	11533	11383
70°	10974	10690	10547
75°	9764	9543	9261
80°	7954	7720	7672
85°	4753	5409	5409



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.0	2.9
10°-20°	430.0	8.3
20°-30°	646.0	12.4
30°-40°	770.8	14.8
40°-50°	790.1	15.2
50°-60°	704.2	13.5
60°-70°	524.2	10.1
70°-80°	284.0	5.5
80°-90°	65.9	1.3
90°-100°	63.1	1.2
100°-110°	165.9	3.2
110°-120°	172.1	3.3
120°-130°	138.0	2.7
130°-140°	108.3	2.1
140°-150°	83.1	1.6
150°-160°	59.9	1.1
160°-170°	36.6	0.7
170°-180°	12.4	0.2
0°-30°	1227.0	23.6
0°-40°	1997.8	38.4
0°-60°	3492.1	67.1
0°-90°	4366.3	83.9
90°-120°	401.1	7.7
90°-150°	730.5	14.0
90°-180°	839.0	16.1
0°-180°	5205.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1600	1600	1600	1600	1600	
5°	1599	1597	1579	1593	1592	152
15°	1533	1530	1515	1528	1527	432
25°	1409	1406	1394	1402	1406	649
35°	1240	1239	1229	1229	1230	775
45°	1033	1030	1022	1020	1023	796
55°	799	796	787	781	786	713
65°	540	536	528	525	521	535
75°	274	274	268	262	260	291
85°	45	51	51	52	51	62
90°	1	2	7	3	3	2
95°	8	33	109	56	38	9
105°	30	45	183	278	260	32
115°	53	64	147	293	335	52
125°	74	83	134	226	266	66
135°	88	97	130	182	207	68
145°	102	109	128	156	168	64
155°	115	119	128	140	144	53
165°	124	126	128	133	134	35
175°	130	130	129	130	130	12
180°	130	130	130	130	130	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1600.1	1600.1	1600.1	1600.1	1600.1
2.5°	1605.0	1602.3	1588.2	1600.0	1598.0
5°	1599.2	1596.7	1579.0	1593.0	1592.2
7.5°	1585.6	1582.4	1566.3	1579.5	1577.9
10°	1573.7	1571.2	1554.3	1567.5	1566.7
12.5°	1558.9	1556.4	1539.5	1552.7	1552.6
15°	1533.1	1529.7	1514.7	1527.9	1527.1
17.5°	1502.3	1498.4	1483.5	1493.9	1495.6
20°	1477.7	1475.2	1461.0	1470.7	1472.4
22.5°	1452.4	1449.0	1434.2	1445.4	1447.1
25°	1409.0	1406.5	1394.1	1402.1	1405.5
27.5°	1361.5	1361.5	1350.0	1355.7	1357.8
30°	1329.7	1329.7	1318.3	1321.9	1325.4
32.5°	1296.0	1293.1	1282.4	1285.2	1288.7
35°	1239.9	1239.1	1229.4	1229.4	1230.2
37.5°	1182.0	1179.5	1169.0	1169.8	1173.9
40°	1140.4	1138.7	1128.1	1128.1	1131.6
42.5°	1098.1	1096.4	1087.2	1085.9	1087.2
45°	1033.0	1030.4	1021.5	1019.9	1023.3
47.5°	963.6	964.3	953.7	951.3	953.2
50°	918.6	918.6	907.9	902.7	905.3
52.5°	871.3	869.9	859.4	853.5	859.5
55°	798.8	796.1	787.3	781.2	785.6
57.5°	724.5	720.4	711.6	704.9	707.3
60°	673.7	667.7	658.7	653.5	655.2
62.5°	620.9	617.5	608.0	600.0	603.8
65°	539.8	536.4	528.3	524.8	521.4
67.5°	460.4	458.1	449.1	445.3	443.1
70°	406.8	402.6	396.3	391.8	391.0
72.5°	354.7	349.8	343.5	339.7	337.5
75°	273.9	273.9	267.7	262.4	259.8
77.5°	196.9	197.6	192.5	190.7	189.5
80°	149.7	149.7	145.3	143.5	144.4
82.5°	104.6	106.7	105.1	102.7	101.5
85°	44.9	51.0	51.1	51.9	51.1
87.5°	7.9	13.1	14.8	12.7	11.3
90°	0.9	2.5	6.6	3.3	3.3
92.5°	3.4	16.8	37.2	16.4	10.6
95°	8.3	32.7	108.8	56.0	38.1
97.5°	14.4	35.8	162.7	129.4	95.3
100°	19.1	38.6	179.3	181.7	141.1
102.5°	23.0	41.3	183.9	226.3	191.6
105°	29.9	45.3	183.4	278.4	259.8
107.5°	36.9	51.1	173.0	305.6	310.1
110°	41.5	54.5	164.3	312.6	332.0

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	46.2	58.5	156.4	308.2	338.0
115°	53.1	64.5	146.9	293.2	334.6
117.5°	59.9	70.4	140.4	272.3	318.2
120°	63.9	73.7	137.7	258.4	303.0
122.5°	67.9	77.6	135.8	244.4	288.4
125°	73.9	82.8	133.6	225.9	266.4
127.5°	78.7	87.7	131.8	211.0	245.2
130°	81.3	91.1	131.1	201.6	233.2
132.5°	84.0	93.8	130.5	193.6	222.0
135°	87.9	96.9	129.5	182.4	206.7
137.5°	92.1	100.9	129.3	174.0	193.9
140°	95.5	103.6	128.7	167.3	185.9
142.5°	98.1	105.6	128.7	162.6	178.7
145°	102.1	108.6	127.8	155.5	167.7
147.5°	106.1	112.4	127.8	149.6	159.7
150°	108.8	114.4	127.8	146.2	154.4
152.5°	111.4	115.8	127.8	143.6	149.8
155°	115.4	118.6	127.8	140.4	144.4
157.5°	118.3	121.5	127.8	137.5	140.4
160°	120.3	122.8	127.8	136.2	137.7
162.5°	122.3	124.2	127.8	134.9	136.5
165°	124.5	126.2	127.8	132.9	134.5
167.5°	126.5	127.3	128.7	132.0	132.7
170°	127.8	128.7	128.7	132.0	132.0
172.5°	128.5	128.7	128.7	131.3	130.7
175°	129.5	129.5	128.7	130.3	130.3
177.5°	129.5	129.5	128.8	130.1	129.5
180°	129.5	129.5	129.5	129.5	129.5

(END OF REPORT)