

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: P519825

Luminaire Tested: **SQ4-F-025U-075D-930-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519825  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-025U-075D-930-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

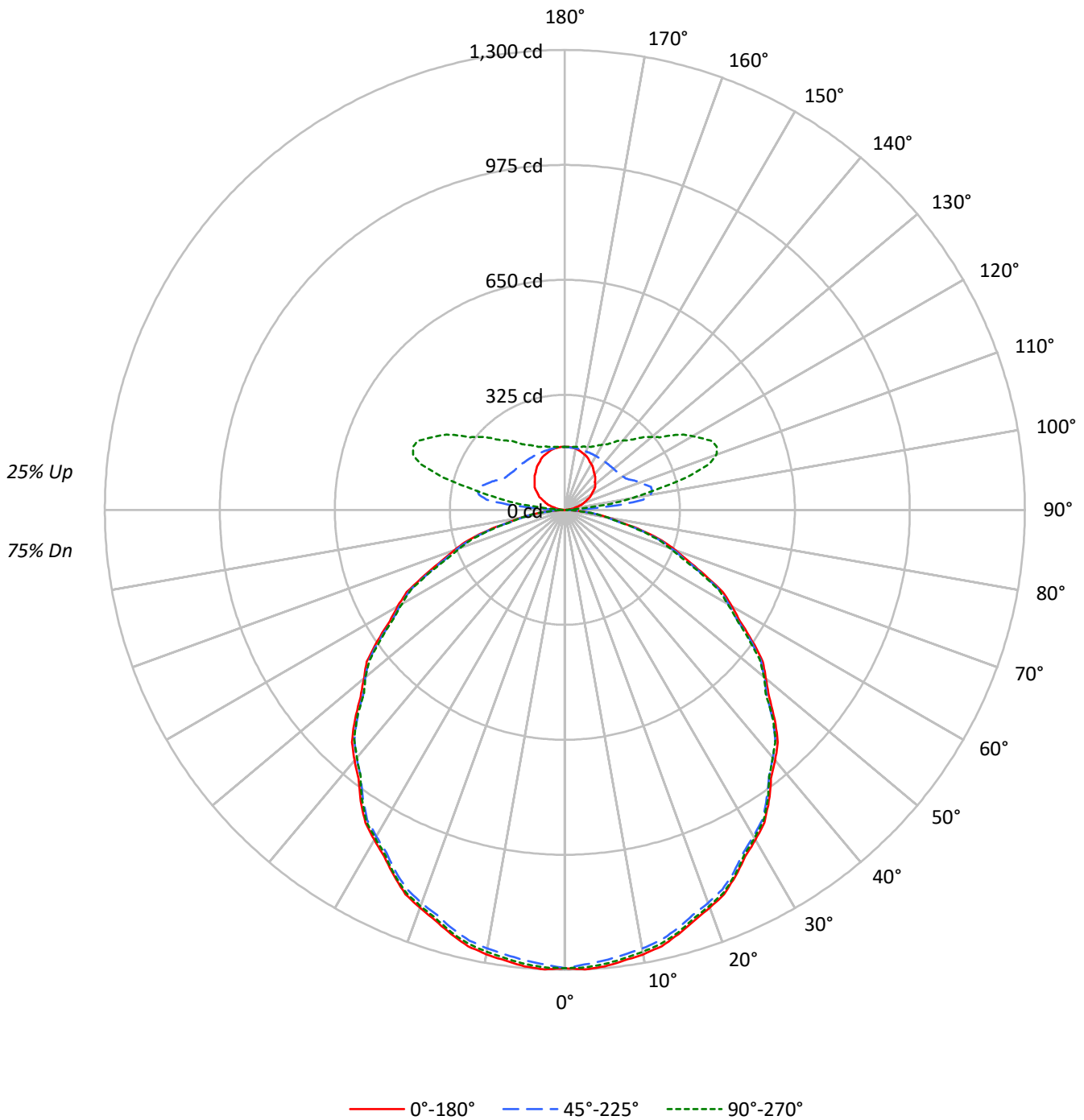
Lumens per Lamp: N/A  
Luminaire Lumens: 4690.7 lumens  
Efficiency: N/A  
Efficacy: 101.3 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 46.3  
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	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79	75
1	103	99	95	91	98	94	91	87	86	83	80	78	75	73	70	69	67	63
2	94	86	80	74	89	82	77	72	75	70	66	68	64	61	62	59	56	53
3	86	76	68	62	81	72	65	60	66	60	56	60	56	52	55	51	48	45
4	79	67	59	52	74	64	57	51	59	52	47	53	48	44	49	45	41	38
5	72	60	51	45	68	57	49	44	52	46	41	48	43	38	44	39	36	33
6	67	54	45	39	63	52	44	38	47	41	36	43	38	34	40	35	31	29
7	62	49	40	34	58	47	39	33	43	36	32	39	34	30	36	32	28	26
8	57	44	36	31	54	43	35	30	39	33	28	36	31	27	33	29	25	23
9	53	41	33	27	51	39	32	27	36	30	25	33	28	24	31	26	23	21
10	50	37	30	25	48	36	29	24	33	27	23	31	25	22	28	24	20	19

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

	0°	45°	90°
0°	7969	7969	7969
5°	7999	7898	7956
10°	7967	7865	7923
15°	7906	7809	7876
20°	7834	7742	7804
25°	7748	7669	7725
30°	7651	7566	7608
35°	7550	7470	7506
40°	7422	7347	7337
45°	7295	7203	7223
50°	7093	7036	7036
55°	6927	6840	6777
60°	6704	6589	6531
65°	6341	6223	6137
70°	5956	5809	5661
75°	5359	5164	5052
80°	4282	4204	4162
85°	2569	2901	2985



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.3	2.6
10°-20°	348.1	7.4
20°-30°	523.1	11.2
30°-40°	624.1	13.3
40°-50°	640.1	13.6
50°-60°	570.3	12.2
60°-70°	425.2	9.1
70°-80°	230.6	4.9
80°-90°	53.9	1.1
90°-100°	86.7	1.8
100°-110°	227.9	4.9
110°-120°	236.3	5.0
120°-130°	189.6	4.0
130°-140°	148.7	3.2
140°-150°	114.2	2.4
150°-160°	82.2	1.8
160°-170°	50.3	1.1
170°-180°	17.0	0.4
0°-30°	993.5	21.2
0°-40°	1617.6	34.5
0°-60°	2828.0	60.3
0°-90°	3537.8	75.4
90°-120°	550.9	11.7
90°-150°	1003.4	21.4
90°-180°	1153.0	24.6
0°-180°	4690.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1296	1296	1296	1296	1296	
5°	1296	1293	1279	1290	1288	123
15°	1242	1239	1226	1236	1237	350
25°	1142	1140	1130	1136	1138	526
35°	1006	1003	995	995	1000	628
45°	839	835	828	828	830	645
55°	646	645	638	632	632	577
65°	436	436	428	423	422	434
75°	226	221	217	214	213	237
85°	36	39	41	41	42	50
90°	1	3	9	5	5	2
95°	11	45	149	77	52	13
105°	41	62	252	382	357	44
115°	73	89	202	403	460	72
125°	102	114	184	310	366	90
135°	121	133	178	250	284	94
145°	140	149	176	214	230	88
155°	158	163	176	193	198	73
165°	171	173	176	182	185	48
175°	178	178	177	179	179	17
180°	178	178	178	178	178	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1295.6	1295.6	1295.6	1295.6	1295.6
2.5°	1300.3	1297.6	1286.2	1295.6	1294.6
5°	1295.6	1293.3	1279.2	1289.7	1288.5
7.5°	1285.0	1282.5	1268.6	1279.2	1278.9
10°	1275.6	1272.2	1259.2	1269.7	1268.6
12.5°	1263.4	1260.0	1247.0	1257.5	1256.4
15°	1241.6	1239.2	1226.3	1235.7	1236.9
17.5°	1216.7	1212.3	1200.7	1209.9	1211.0
20°	1196.9	1193.5	1182.8	1191.1	1192.2
22.5°	1176.2	1172.8	1162.2	1170.4	1171.5
25°	1141.7	1140.5	1130.0	1135.9	1138.2
27.5°	1104.4	1101.2	1092.6	1097.1	1099.4
30°	1077.2	1074.8	1065.3	1069.0	1071.2
32.5°	1048.9	1047.5	1039.1	1040.7	1044.0
35°	1005.5	1003.2	994.9	995.0	999.6
37.5°	957.3	954.7	947.9	946.8	948.6
40°	924.4	921.0	915.0	913.8	913.8
42.5°	890.6	888.0	880.2	878.2	880.9
45°	838.7	835.3	828.1	828.2	830.4
47.5°	782.5	781.1	772.9	769.1	770.0
50°	741.2	743.5	735.3	730.7	735.3
52.5°	705.5	704.1	696.8	692.1	694.0
55°	646.0	644.9	637.8	632.0	632.0
57.5°	586.4	583.4	576.1	571.6	575.1
60°	545.0	543.9	535.6	527.5	530.9
62.5°	503.6	501.6	493.3	488.0	490.6
65°	435.7	435.7	427.6	422.9	421.7
67.5°	376.3	370.8	366.3	360.6	359.0
70°	331.2	326.6	323.0	318.2	314.8
72.5°	287.1	284.3	278.9	274.2	273.5
75°	225.5	220.9	217.3	213.7	212.6
77.5°	160.5	159.5	156.3	154.4	155.1
80°	120.9	120.9	118.7	118.6	117.5
82.5°	85.3	86.2	85.7	83.8	83.6
85°	36.4	38.7	41.1	41.1	42.3
87.5°	6.8	11.9	12.2	11.3	11.3
90°	1.1	3.3	9.1	4.6	4.6
92.5°	4.8	23.0	51.0	22.7	14.6
95°	11.4	44.8	149.4	76.9	52.5
97.5°	19.9	49.2	223.5	177.7	130.9
100°	26.2	53.0	246.3	249.6	193.8
102.5°	31.7	56.7	252.7	310.8	263.1
105°	41.0	62.2	252.0	382.5	356.9
107.5°	50.7	70.3	237.6	419.7	426.0
110°	57.0	74.8	225.8	429.4	456.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	63.4	80.4	214.8	423.3	464.4
115°	72.9	88.6	201.8	402.7	459.5
117.5°	82.3	96.6	192.9	374.0	437.2
120°	87.8	101.2	189.3	354.9	416.2
122.5°	93.3	106.7	186.6	335.7	396.1
125°	101.5	113.7	183.6	310.3	366.0
127.5°	108.1	120.6	181.0	289.8	336.8
130°	111.7	125.1	180.2	276.9	320.4
132.5°	115.4	128.8	179.2	265.9	304.9
135°	120.8	133.2	177.9	250.4	283.9
137.5°	126.6	138.6	177.7	239.0	266.4
140°	131.1	142.2	176.7	229.8	255.4
142.5°	134.8	145.0	176.7	223.3	245.4
145°	140.2	149.2	175.6	213.6	230.4
147.5°	145.8	154.5	175.6	205.6	219.4
150°	149.4	157.1	175.6	200.9	212.1
152.5°	153.0	159.1	175.6	197.2	205.7
155°	158.5	163.0	175.6	192.8	198.4
157.5°	162.6	166.8	175.6	188.9	192.9
160°	165.4	168.7	175.6	187.1	189.3
162.5°	168.0	170.5	175.6	185.2	187.4
165°	171.0	173.3	175.6	182.5	184.8
167.5°	173.8	174.9	176.7	181.3	182.2
170°	175.6	176.7	176.7	181.3	181.3
172.5°	176.5	176.7	176.7	180.4	179.5
175°	177.9	177.9	176.7	179.0	179.0
177.5°	177.9	177.9	176.9	178.7	177.9
180°	177.9	177.9	177.9	177.9	177.9

(END OF REPORT)