

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: P519833

Luminaire Tested: **SQ4-F-025U-075D-940-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519833  
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-940-1D-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**

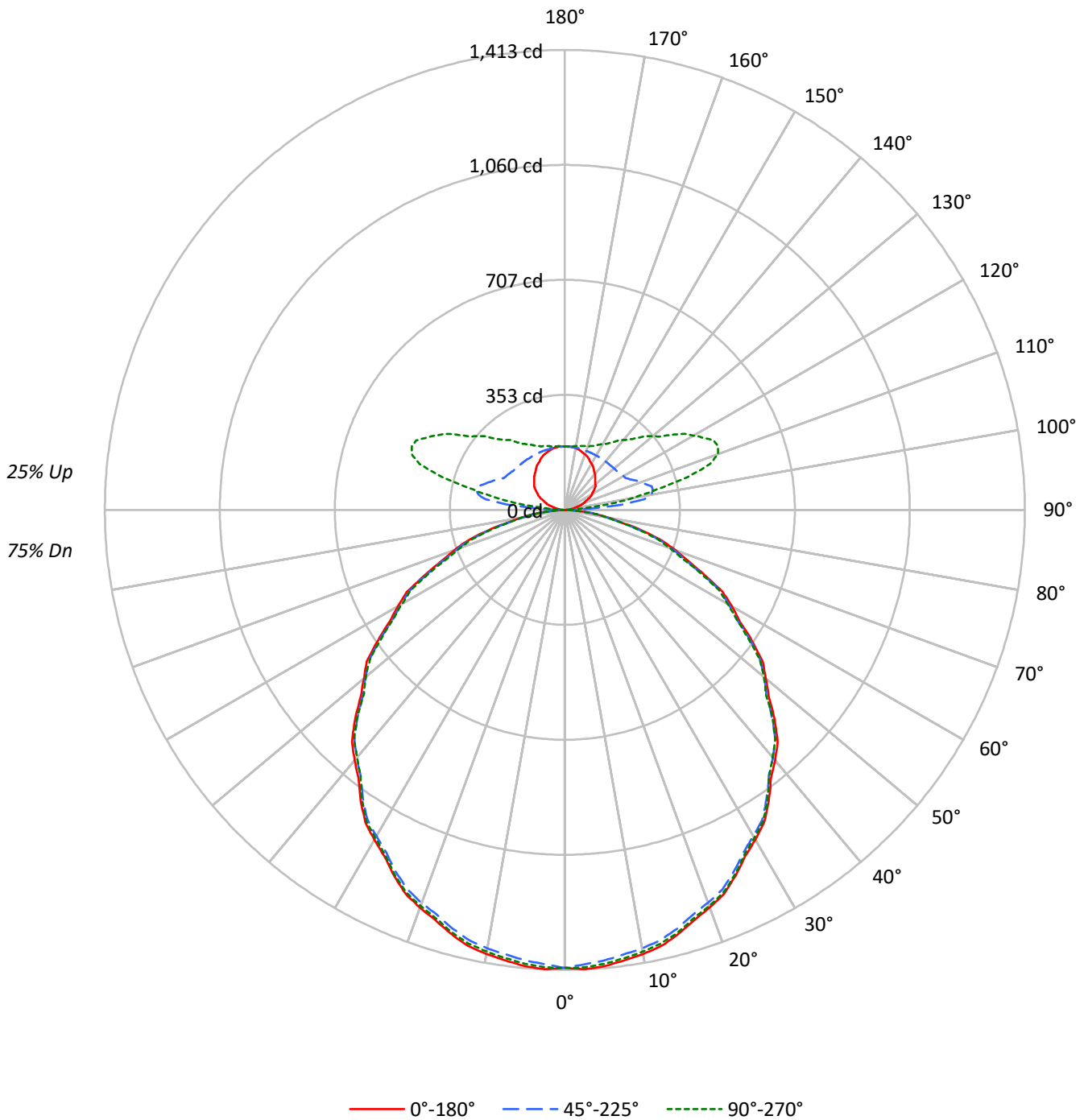
Lumens per Lamp: N/A  
Luminaire Lumens: 5108.5 lumens  
Efficiency: N/A  
Efficacy: 110.3 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Direct

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	77	75	73	70	68	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	55	52	54	51	48	45
4	79	67	59	52	74	64	57	51	59	52	47	53	48	44	49	44	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	31	28	26
8	57	44	36	31	54	43	35	30	39	33	28	36	31	27	33	28	25	23
9	53	41	33	27	51	39	32	27	36	30	25	33	28	24	31	26	22	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°	8657	8657	8657
5°	8690	8580	8643
10°	8655	8543	8608
15°	8589	8483	8556
20°	8511	8411	8478
25°	8417	8331	8392
30°	8310	8220	8266
35°	8202	8115	8154
40°	8063	7981	7971
45°	7925	7825	7848
50°	7705	7644	7644
55°	7526	7430	7362
60°	7284	7158	7096
65°	6890	6760	6667
70°	6472	6310	6150
75°	5822	5611	5490
80°	4658	4566	4520
85°	2795	3155	3246



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.9	2.6
10°-20°	378.2	7.4
20°-30°	568.2	11.1
30°-40°	678.0	13.3
40°-50°	695.3	13.6
50°-60°	619.6	12.1
60°-70°	462.0	9.0
70°-80°	250.5	4.9
80°-90°	58.6	1.1
90°-100°	95.1	1.9
100°-110°	250.1	4.9
110°-120°	259.3	5.1
120°-130°	208.0	4.1
130°-140°	163.2	3.2
140°-150°	125.3	2.5
150°-160°	90.2	1.8
160°-170°	55.2	1.1
170°-180°	18.6	0.4
0°-30°	1079.3	21.1
0°-40°	1757.3	34.4
0°-60°	3072.2	60.1
0°-90°	3843.4	75.2
90°-120°	604.5	11.8
90°-150°	1101.0	21.6
90°-180°	1265.0	24.8
0°-180°	5108.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1408	1408	1408	1408	1408	
5°	1408	1405	1390	1401	1400	134
15°	1349	1346	1332	1342	1344	380
25°	1240	1239	1228	1234	1236	571
35°	1092	1090	1081	1081	1086	682
45°	911	907	900	900	902	701
55°	702	701	693	686	686	627
65°	473	473	464	459	458	471
75°	245	240	236	232	231	257
85°	40	42	45	45	46	55
90°	1	4	10	5	5	2
95°	12	49	164	84	58	14
105°	45	68	276	420	392	48
115°	80	97	222	442	504	79
125°	111	125	201	340	402	99
135°	133	146	195	275	312	103
145°	154	164	193	234	253	96
155°	174	179	193	212	218	80
165°	188	190	193	200	203	53
175°	195	195	194	196	196	19
180°	195	195	195	195	195	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1407.5	1407.5	1407.5	1407.5	1407.5
2.5°	1412.6	1409.6	1397.3	1407.5	1406.4
5°	1407.5	1404.9	1389.6	1401.1	1399.8
7.5°	1396.0	1393.2	1378.2	1389.6	1389.4
10°	1385.8	1382.0	1367.9	1379.4	1378.2
12.5°	1372.6	1368.8	1354.7	1366.1	1364.9
15°	1348.8	1346.3	1332.2	1342.5	1343.6
17.5°	1321.7	1317.0	1304.4	1314.4	1315.6
20°	1300.3	1296.6	1285.0	1293.9	1295.2
22.5°	1277.8	1274.1	1262.6	1271.5	1272.8
25°	1240.3	1239.0	1227.5	1234.0	1236.5
27.5°	1199.8	1196.2	1187.0	1191.9	1194.4
30°	1170.1	1167.7	1157.4	1161.3	1163.8
32.5°	1139.5	1138.1	1128.8	1130.7	1134.1
35°	1092.3	1089.8	1080.8	1080.9	1085.9
37.5°	1040.0	1037.2	1029.8	1028.5	1030.5
40°	1004.2	1000.5	994.0	992.8	992.8
42.5°	967.5	964.8	956.3	954.0	957.0
45°	911.1	907.4	899.6	899.6	902.2
47.5°	850.1	848.7	839.6	835.6	836.6
50°	805.2	807.7	798.8	793.8	798.8
52.5°	766.4	764.9	756.9	751.9	753.9
55°	701.8	700.6	692.9	686.5	686.5
57.5°	637.0	633.7	625.8	621.0	624.8
60°	592.1	590.8	581.9	573.0	576.8
62.5°	547.1	545.0	535.9	530.1	532.9
65°	473.4	473.4	464.5	459.4	458.1
67.5°	408.9	402.9	397.9	391.8	390.0
70°	359.9	354.9	350.9	345.7	342.0
72.5°	311.8	308.9	302.9	297.8	297.1
75°	245.0	240.0	236.1	232.2	231.0
77.5°	174.3	173.3	169.8	167.7	168.5
80°	131.5	131.5	128.9	128.8	127.6
82.5°	92.6	93.7	93.2	91.1	90.8
85°	39.6	42.0	44.7	44.7	46.0
87.5°	7.4	12.9	13.3	12.3	12.3
90°	1.2	3.7	10.0	5.0	5.0
92.5°	5.3	25.3	56.0	24.9	16.1
95°	12.5	49.2	163.9	84.5	57.5
97.5°	21.8	54.1	245.3	195.0	143.7
100°	28.8	58.1	270.2	273.9	212.7
102.5°	34.8	62.2	277.3	341.1	288.8
105°	45.0	68.2	276.5	419.8	391.6
107.5°	55.5	77.0	260.8	460.6	467.4
110°	62.5	82.1	247.8	471.1	500.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	69.6	88.1	235.7	464.5	509.5
115°	80.1	97.2	221.5	441.8	504.2
117.5°	90.3	106.0	211.7	410.4	479.7
120°	96.4	111.1	207.7	389.4	456.7
122.5°	102.4	117.0	204.6	368.4	434.6
125°	111.4	124.8	201.4	340.5	401.7
127.5°	118.6	132.3	198.7	318.0	369.6
130°	122.6	137.3	197.7	303.9	351.6
132.5°	126.7	141.3	196.7	291.7	334.6
135°	132.7	146.1	195.2	274.8	311.5
137.5°	138.9	152.1	194.9	262.2	292.3
140°	143.9	156.1	193.9	252.2	280.3
142.5°	147.9	159.2	193.9	245.1	269.3
145°	153.9	163.6	192.7	234.4	252.7
147.5°	159.9	169.5	192.7	225.6	240.7
150°	163.9	172.4	192.7	220.5	232.8
152.5°	167.9	174.5	192.7	216.4	225.7
155°	173.9	178.8	192.7	211.6	217.7
157.5°	178.5	183.0	192.7	207.3	211.7
160°	181.4	185.1	192.7	205.2	207.7
162.5°	184.4	187.2	192.7	203.2	205.7
165°	187.6	190.1	192.7	200.3	202.7
167.5°	190.7	191.9	193.9	199.0	200.0
170°	192.7	193.9	193.9	198.9	198.9
172.5°	193.7	193.9	193.9	198.0	196.9
175°	195.2	195.2	193.9	196.4	196.4
177.5°	195.2	195.2	194.2	196.1	195.2
180°	195.2	195.2	195.2	195.2	195.2

(END OF REPORT)