

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: P520017

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

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P520017  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-075U-075D-930-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

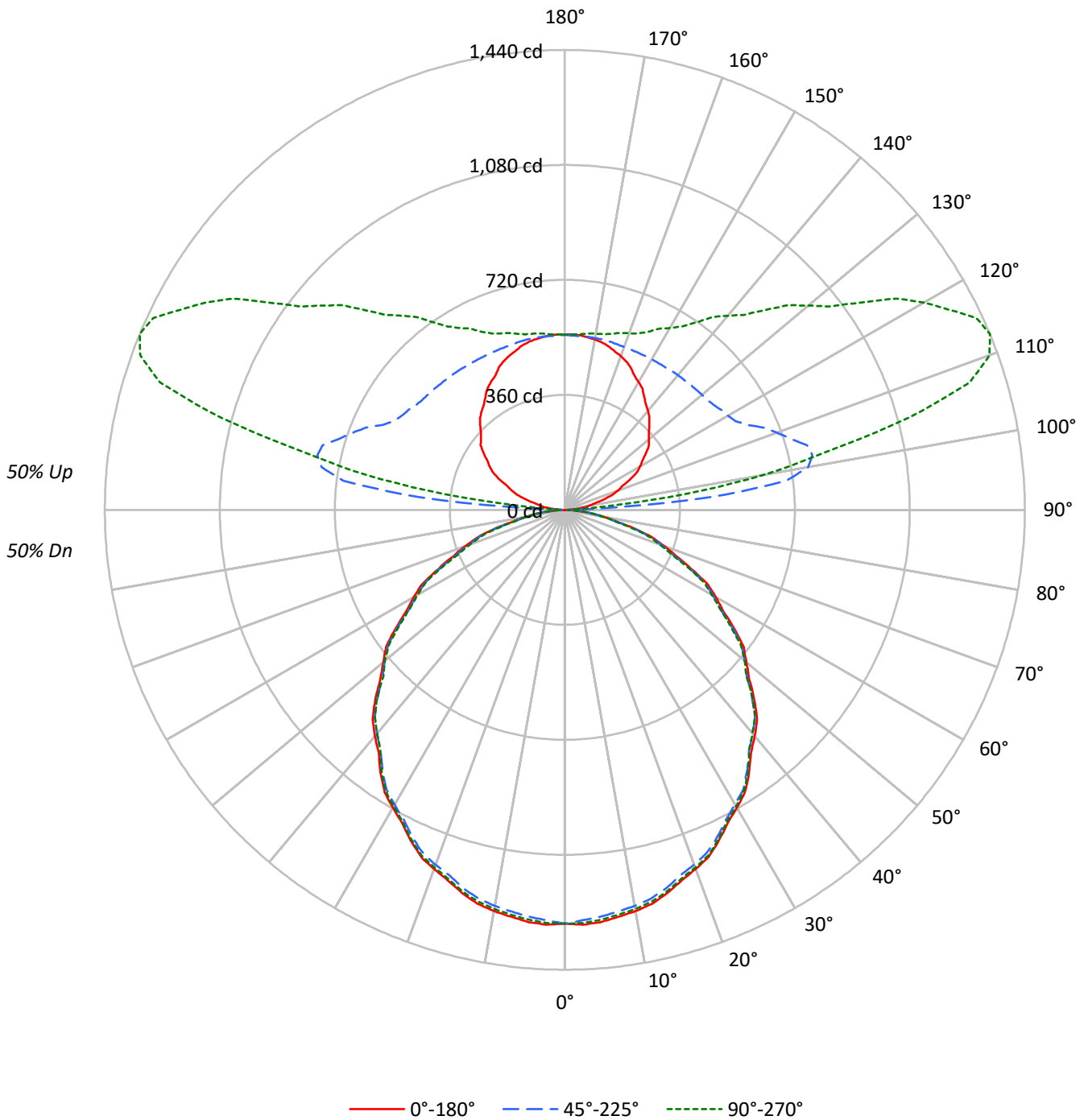
Lumens per Lamp: N/A  
Luminaire Lumens: 7111.8 lumens  
Efficiency: N/A  
Efficacy: 107.6 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 66.1  
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	93	89	86	90	86	83	80	73	71	68	61	59	57	49	48	47	42
2	89	81	75	70	82	75	70	65	64	60	56	53	50	48	43	41	40	35
3	81	72	64	58	74	66	60	55	56	51	47	47	43	40	38	36	34	29
4	74	63	55	49	68	59	52	46	50	44	40	42	38	34	34	31	29	25
5	68	56	48	42	62	52	45	40	45	39	35	37	33	30	31	28	25	22
6	63	50	42	36	57	47	40	34	40	34	30	34	29	26	28	25	22	19
7	58	45	37	32	53	42	35	30	36	31	26	31	26	23	25	22	20	17
8	54	41	33	28	49	38	31	27	33	27	23	28	24	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	21	18	16	14
10	47	34	27	22	43	32	26	21	28	23	19	24	20	17	20	17	14	12

**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	1.7
10°-20°	348.1	4.9
20°-30°	523.1	7.4
30°-40°	624.1	8.8
40°-50°	640.1	9.0
50°-60°	570.3	8.0
60°-70°	425.2	6.0
70°-80°	230.6	3.2
80°-90°	54.4	0.8
90°-100°	258.7	3.6
100°-110°	711.8	10.0
110°-120°	734.7	10.3
120°-130°	588.6	8.3
130°-140°	462.3	6.5
140°-150°	354.3	5.0
150°-160°	254.7	3.6
160°-170°	155.8	2.2
170°-180°	52.5	0.7
0°-30°	993.5	14.0
0°-40°	1617.6	22.7
0°-60°	2828.0	39.8
0°-90°	3538.2	49.8
90°-120°	1705.2	24.0
90°-150°	3110.5	43.7
90°-180°	3574.0	50.3
0°-180°	7111.8	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	5	8	10	10	3
95°	38	141	458	196	125	41
105°	127	196	784	1194	1115	134
115°	225	274	629	1253	1422	222
125°	310	354	571	965	1131	277
135°	375	416	554	781	884	289
145°	433	463	546	665	717	272
155°	490	506	543	598	615	225
165°	530	537	545	567	571	149
175°	548	550	546	553	552	52
180°	548	548	548	548	548	



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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	12.1	12.0	12.5	12.5
90°	1.2	4.6	8.2	10.5	10.5
92.5°	16.1	68.9	119.2	45.8	37.6
95°	38.5	141.2	457.5	195.6	124.9
97.5°	62.8	156.6	698.2	538.0	379.5
100°	80.5	166.1	773.8	781.0	637.2
102.5°	97.3	177.4	793.4	968.9	837.1
105°	127.3	195.7	784.3	1194.5	1114.6
107.5°	155.7	218.2	739.8	1304.9	1328.6
110°	176.3	233.3	706.1	1332.4	1414.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	194.9	250.1	672.5	1314.7	1439.7
115°	225.3	274.4	629.0	1252.6	1421.5
117.5°	254.2	299.4	601.5	1165.6	1356.7
120°	271.9	315.2	589.4	1100.4	1297.8
122.5°	287.8	331.2	581.0	1043.2	1230.6
125°	310.5	353.8	570.7	965.4	1130.9
127.5°	331.9	373.3	564.0	900.6	1045.7
130°	343.1	385.4	560.2	862.0	994.4
132.5°	356.2	398.4	557.4	828.1	947.7
135°	374.6	415.7	554.4	780.8	883.5
137.5°	391.9	430.0	551.8	742.6	827.2
140°	404.9	440.3	550.9	717.2	793.6
142.5°	416.2	448.9	549.0	694.5	760.0
145°	433.0	462.7	546.2	665.2	716.6
147.5°	451.0	476.5	544.8	639.3	680.4
150°	462.2	485.0	543.8	625.1	657.1
152.5°	472.4	493.5	543.0	612.9	639.3
155°	490.1	506.2	542.7	597.9	615.0
157.5°	503.0	516.1	542.7	585.7	597.5
160°	512.3	522.6	542.7	579.0	588.2
162.5°	519.9	528.3	543.6	573.5	580.7
165°	529.8	536.7	545.0	567.3	570.7
167.5°	536.9	542.1	546.2	562.1	563.0
170°	541.5	544.9	546.2	560.2	560.2
172.5°	545.3	546.9	546.2	557.4	556.5
175°	548.5	549.7	546.2	553.2	552.1
177.5°	549.5	549.5	545.7	551.3	549.5
180°	548.5	548.5	548.5	548.5	548.5

(END OF REPORT)