

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: P520025

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

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P520025  
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-940-1D-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**

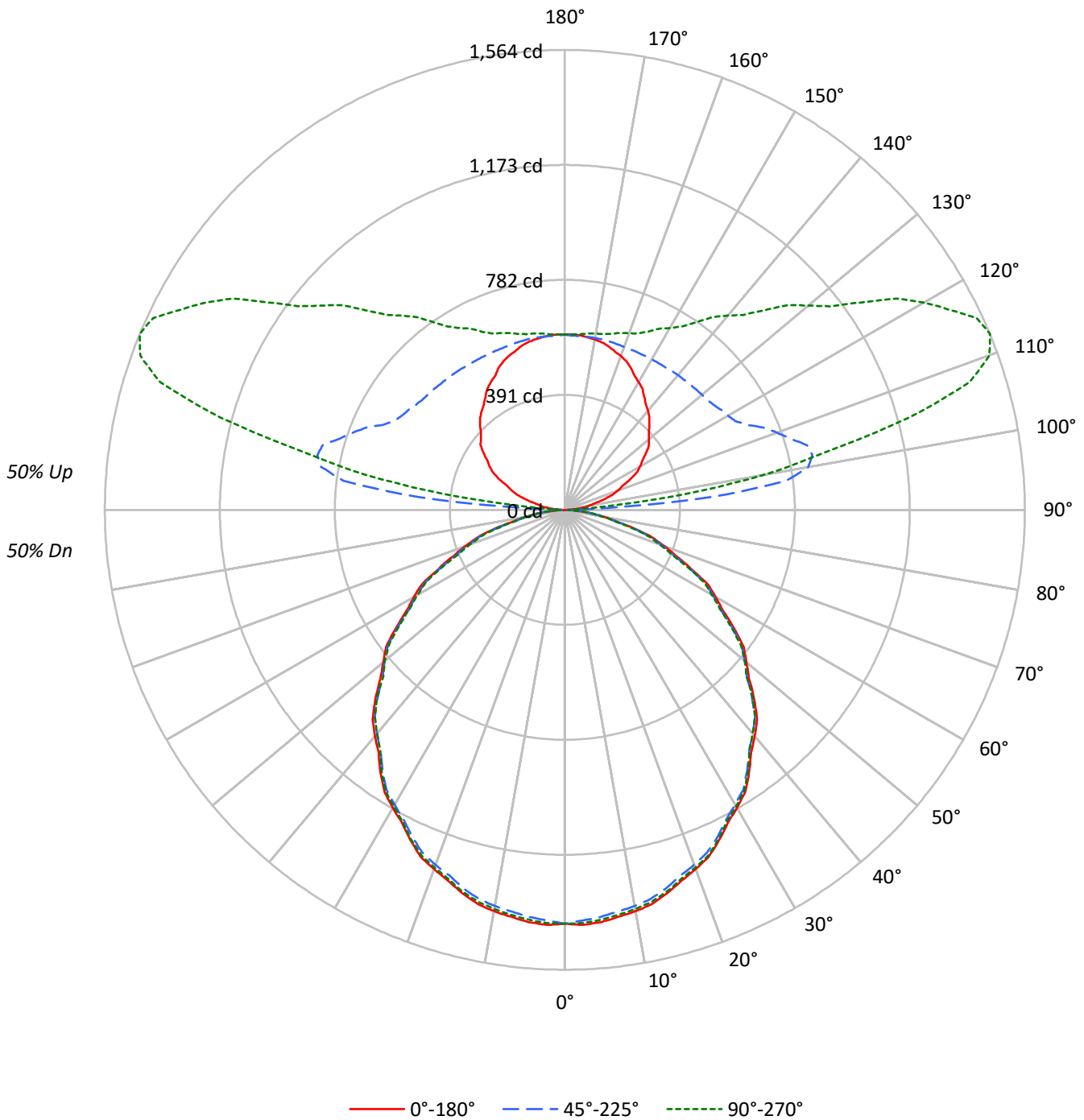
Lumens per Lamp: N/A  
Luminaire Lumens: 7726.0 lumens  
Efficiency: N/A  
Efficacy: 116.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: General Diffuse

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°	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	1.7
10°-20°	378.2	4.9
20°-30°	568.2	7.4
30°-40°	678.0	8.8
40°-50°	695.3	9.0
50°-60°	619.6	8.0
60°-70°	462.0	6.0
70°-80°	250.5	3.2
80°-90°	59.1	0.8
90°-100°	281.0	3.6
100°-110°	773.3	10.0
110°-120°	798.1	10.3
120°-130°	639.5	8.3
130°-140°	502.3	6.5
140°-150°	384.9	5.0
150°-160°	276.7	3.6
160°-170°	169.2	2.2
170°-180°	57.0	0.7
0°-30°	1079.3	14.0
0°-40°	1757.3	22.7
0°-60°	3072.2	39.8
0°-90°	3843.9	49.8
90°-120°	1852.5	24.0
90°-150°	3379.1	43.7
90°-180°	3882.0	50.2
0°-180°	7726.0	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	5	9	11	11	4
95°	42	153	497	212	136	44
105°	138	212	852	1298	1211	146
115°	245	298	683	1361	1544	241
125°	337	384	620	1049	1229	301
135°	407	452	602	848	960	314
145°	470	503	593	723	778	295
155°	532	550	590	650	668	245
165°	576	583	592	616	620	162
175°	596	597	593	601	600	57
180°	596	596	596	596	596	



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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	13.2	13.0	13.5	13.5
90°	1.3	5.0	8.9	11.4	11.4
92.5°	17.5	74.7	129.6	49.8	40.8
95°	41.9	153.4	497.0	212.5	135.7
97.5°	68.2	170.1	758.4	584.4	412.3
100°	87.4	180.5	840.6	848.5	692.3
102.5°	105.7	192.8	861.9	1052.7	909.4
105°	138.2	212.5	852.0	1297.6	1210.8
107.5°	169.1	237.1	803.6	1417.6	1443.4
110°	191.4	253.4	767.0	1447.4	1536.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	211.8	271.7	730.6	1428.2	1564.1
115°	244.7	298.0	683.4	1360.9	1544.3
117.5°	276.1	325.2	653.5	1266.3	1473.8
120°	295.4	342.5	640.3	1195.5	1409.9
122.5°	312.7	359.8	631.2	1133.3	1336.9
125°	337.3	384.4	620.0	1048.8	1228.6
127.5°	360.6	405.4	612.6	978.3	1136.0
130°	372.8	418.6	608.6	936.5	1080.2
132.5°	386.9	432.8	605.6	899.6	1029.6
135°	407.0	451.6	602.2	848.2	959.8
137.5°	425.8	467.1	599.5	806.7	898.7
140°	440.0	478.4	598.4	779.1	862.2
142.5°	452.1	487.6	596.5	754.5	825.6
145°	470.4	502.7	593.3	722.7	778.5
147.5°	489.9	517.7	591.9	694.6	739.2
150°	502.1	526.9	590.9	679.1	713.8
152.5°	513.2	536.0	589.8	665.8	694.6
155°	532.5	549.9	589.6	649.6	668.2
157.5°	546.5	560.6	589.6	636.3	649.2
160°	556.6	567.8	589.6	629.1	639.0
162.5°	564.8	573.9	590.6	623.0	630.9
165°	575.6	583.1	592.2	616.3	620.0
167.5°	583.3	588.9	593.3	610.6	611.6
170°	588.3	592.1	593.3	608.6	608.6
172.5°	592.3	594.1	593.3	605.6	604.6
175°	595.9	597.1	593.3	601.0	599.7
177.5°	596.9	596.9	592.8	598.9	596.9
180°	595.9	595.9	595.9	595.9	595.9

(END OF REPORT)