

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: P520041

Luminaire Tested: **SQ4-F-075U-100D-930-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520041
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G3-1910-536-19)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-075U-100D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

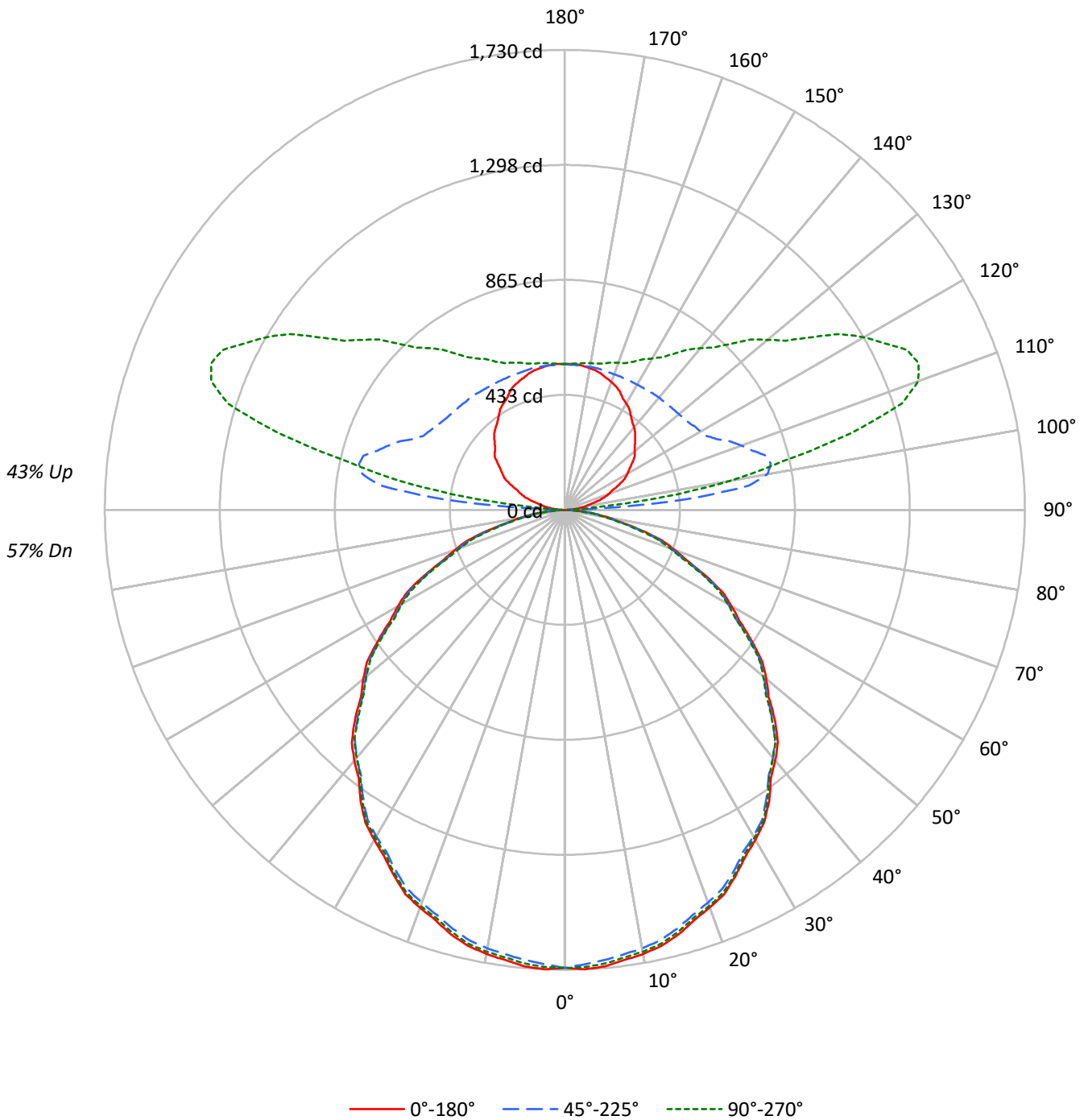
Lumens per Lamp: N/A
Luminaire Lumens: 8274.7 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 79.8
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	50	30	10	0	
RCR																						
0	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	57				57
1	99	95	91	87	92	88	85	82	76	74	72	65	64	62	55	54	53				48	
2	90	83	77	71	84	77	72	67	67	63	59	57	54	52	48	46	44				40	
3	82	73	65	59	76	68	61	56	59	54	50	51	47	43	43	40	38				34	
4	75	64	56	50	70	60	53	47	52	47	42	45	41	37	38	35	32				29	
5	69	57	49	43	64	54	46	41	47	41	36	40	36	32	34	31	28				25	
6	64	51	43	37	59	48	41	35	42	36	32	36	32	28	31	27	25				22	
7	59	46	38	33	55	44	36	31	38	32	28	33	28	25	28	25	22				19	
8	55	42	34	29	51	40	32	27	35	29	25	30	26	22	26	22	20				17	
9	51	38	31	26	47	36	29	24	32	26	22	28	23	20	24	20	18				15	
10	48	35	28	23	44	33	27	22	29	24	20	26	21	18	22	19	16				14	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10598	10598	10598
5°	10646	10500	10581
10°	10593	10460	10541
15°	10528	10385	10468
20°	10420	10295	10381
25°	10306	10185	10266
30°	10180	10072	10122
35°	10053	9929	9981
40°	9886	9771	9780
45°	9712	9578	9547
50°	9461	9348	9326
55°	9183	9081	9017
60°	8904	8744	8714
65°	8469	8278	8211
70°	7868	7677	7528
75°	7027	6802	6661
80°	5781	5572	5320
85°	3423	3754	3839



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.6	2.0
10°-20°	463.1	5.6
20°-30°	695.5	8.4
30°-40°	830.0	10.0
40°-50°	850.8	10.3
50°-60°	757.6	9.2
60°-70°	564.7	6.8
70°-80°	305.8	3.7
80°-90°	71.0	0.9
90°-100°	258.7	3.1
100°-110°	711.8	8.6
110°-120°	734.7	8.9
120°-130°	588.6	7.1
130°-140°	462.3	5.6
140°-150°	354.3	4.3
150°-160°	254.7	3.1
160°-170°	155.8	1.9
170°-180°	52.5	0.6
0°-30°	1321.3	16.0
0°-40°	2151.3	26.0
0°-60°	3759.7	45.4
0°-90°	4701.2	56.8
90°-120°	1705.2	20.6
90°-150°	3110.5	37.6
90°-180°	3574.0	43.2
0°-180°	8274.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1723	1723	1723	1723	1723	
5°	1724	1721	1701	1716	1714	163
15°	1653	1648	1631	1644	1644	466
25°	1518	1515	1501	1509	1513	700
35°	1339	1333	1322	1325	1329	836
45°	1116	1111	1101	1095	1098	859
55°	856	858	847	838	841	766
65°	582	580	569	563	564	575
75°	296	292	286	280	280	315
85°	48	53	53	54	54	68
90°	1	5	8	10	10	4
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°	1723.1	1723.1	1723.1	1723.1	1723.1
2.5°	1729.8	1726.1	1710.9	1723.1	1721.3
5°	1724.3	1720.9	1700.6	1716.0	1713.7
7.5°	1708.3	1704.8	1687.0	1701.1	1699.1
10°	1696.0	1692.5	1674.7	1688.9	1687.7
12.5°	1679.8	1676.4	1658.6	1672.7	1671.6
15°	1653.4	1647.6	1630.9	1643.9	1643.9
17.5°	1618.4	1614.0	1598.5	1609.4	1609.6
20°	1591.9	1588.4	1572.9	1584.8	1586.0
22.5°	1565.4	1561.9	1544.6	1555.5	1557.6
25°	1518.5	1515.1	1500.8	1509.2	1512.7
27.5°	1470.3	1465.2	1451.2	1458.5	1461.1
30°	1433.4	1431.0	1418.1	1421.6	1425.1
32.5°	1394.6	1392.3	1381.1	1382.9	1389.1
35°	1338.8	1333.1	1322.3	1324.7	1329.3
37.5°	1272.8	1270.0	1259.5	1258.2	1262.6
40°	1231.2	1226.5	1216.9	1214.6	1218.1
42.5°	1185.7	1181.2	1169.7	1167.4	1171.8
45°	1116.5	1110.7	1101.1	1095.3	1097.5
47.5°	1038.9	1038.9	1029.0	1022.1	1025.6
50°	988.7	988.7	976.9	971.1	974.6
52.5°	936.7	937.6	924.8	921.8	920.6
55°	856.3	857.5	846.8	838.5	840.9
57.5°	778.7	776.1	763.7	758.4	759.6
60°	723.8	720.3	710.8	702.7	708.4
62.5°	668.0	666.3	656.8	647.6	646.9
65°	581.9	579.5	568.8	563.0	564.2
67.5°	496.2	493.4	483.7	475.3	478.3
70°	437.5	437.5	426.9	422.1	418.6
72.5°	383.6	379.0	371.2	364.4	361.9
75°	295.7	292.2	286.2	280.3	280.3
77.5°	215.2	212.2	208.4	204.3	203.2
80°	163.2	162.1	157.3	156.0	150.2
82.5°	114.9	114.7	111.9	108.8	108.6
85°	48.5	53.1	53.2	54.4	54.4
87.5°	8.7	15.0	14.9	13.5	13.5
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)