

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: P519849

Luminaire Tested: **SQ4-F-025U-100D-930-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519849
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-025U-100D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

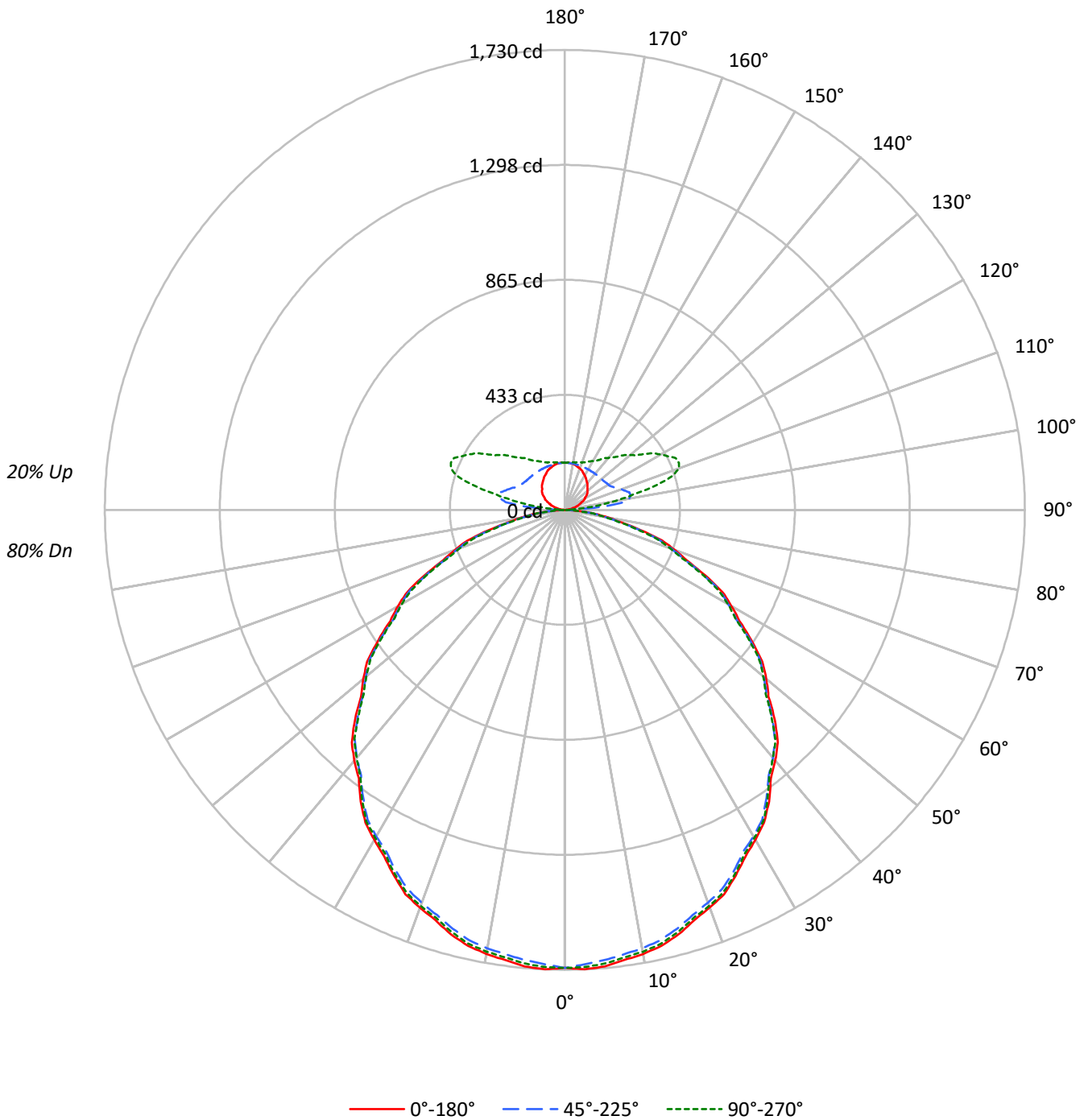
Lumens per Lamp: N/A
Luminaire Lumens: 5853.7 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 60
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	114	114	114	114	109	109	109	109	100	100	100	92	92	92	84	84	84	80
1	105	100	96	92	100	96	92	89	88	85	83	81	79	77	74	73	71	68
2	95	87	81	75	91	84	78	73	77	72	68	71	67	64	65	62	60	56
3	87	77	69	63	83	74	67	61	68	62	57	63	58	54	58	54	51	48
4	79	68	59	53	76	65	58	52	60	54	49	56	50	46	51	47	43	41
5	73	61	52	46	70	58	50	44	54	47	42	50	44	40	46	42	38	35
6	67	54	46	40	64	52	45	39	49	42	37	45	39	35	42	37	33	31
7	62	49	41	35	59	48	40	34	44	38	33	41	35	31	38	33	30	27
8	58	45	37	31	55	43	36	30	40	34	29	38	32	28	35	30	26	24
9	54	41	33	28	52	40	32	27	37	31	26	35	29	25	32	28	24	22
10	51	38	30	25	48	37	29	25	34	28	24	32	27	23	30	25	22	20

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	2.8
10°-20°	463.1	7.9
20°-30°	695.5	11.9
30°-40°	830.0	14.2
40°-50°	850.8	14.5
50°-60°	757.6	12.9
60°-70°	564.7	9.6
70°-80°	305.8	5.2
80°-90°	70.6	1.2
90°-100°	86.7	1.5
100°-110°	227.9	3.9
110°-120°	236.3	4.0
120°-130°	189.6	3.2
130°-140°	148.7	2.5
140°-150°	114.2	2.0
150°-160°	82.2	1.4
160°-170°	50.3	0.9
170°-180°	17.0	0.3
0°-30°	1321.3	22.6
0°-40°	2151.3	36.8
0°-60°	3759.7	64.2
0°-90°	4700.8	80.3
90°-120°	550.9	9.4
90°-150°	1003.4	17.1
90°-180°	1153.0	19.7
0°-180°	5853.7	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	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°	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	14.8	15.2	12.3	12.3
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)