

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: P564651

Luminaire Tested: **SQ4-PW1-050U-075D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564651
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-050U-075D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

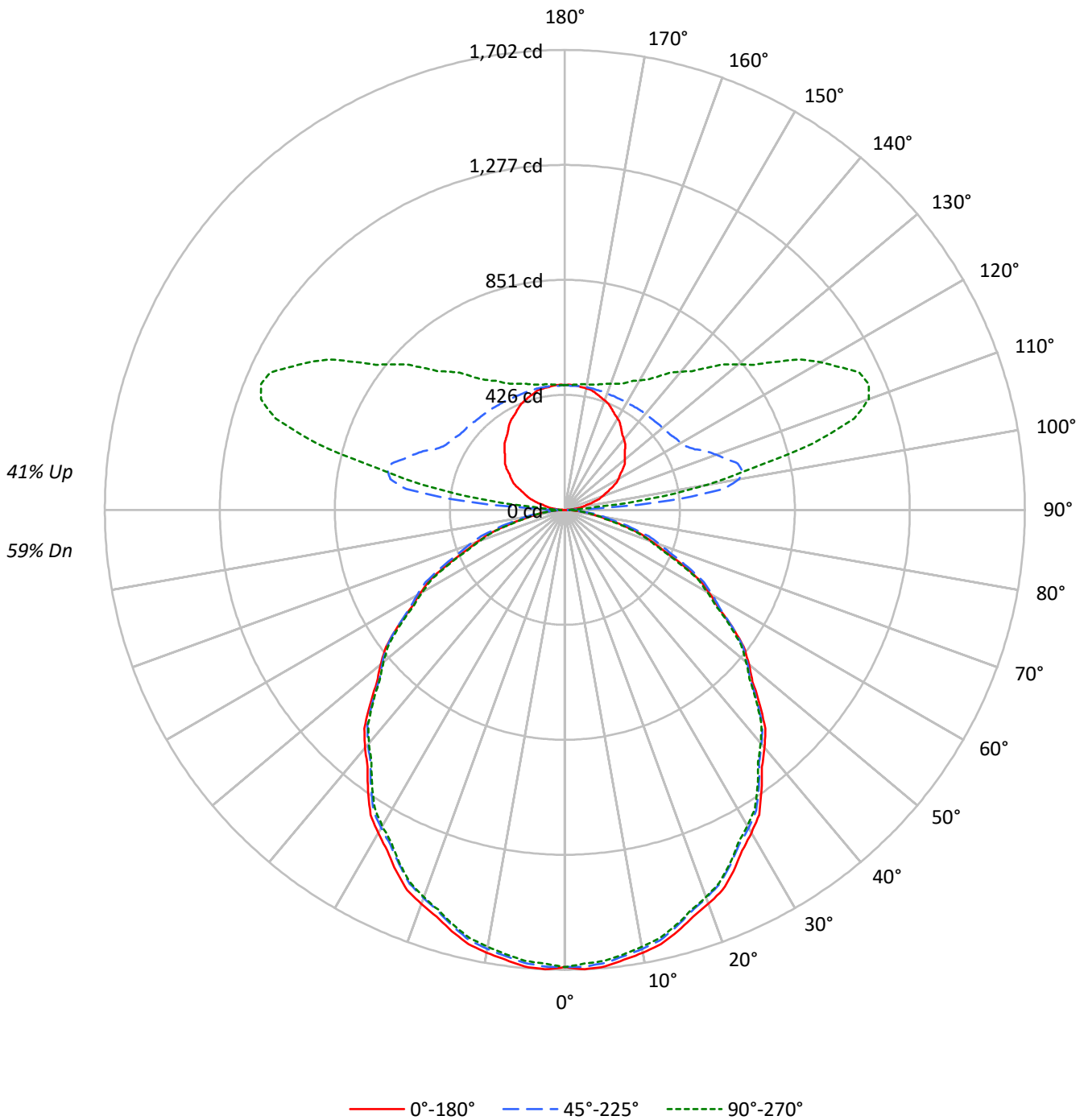
Lumens per Lamp: N/A
Luminaire Lumens: 7325.2 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 58.5
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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64	59
1	100	96	92	88	93	89	86	83	78	75	73	67	65	63	57	56	55	50
2	91	84	77	72	85	78	73	68	68	64	60	59	56	53	50	48	46	42
3	83	74	66	60	77	69	62	57	60	55	51	52	48	45	45	42	39	36
4	76	65	57	51	71	61	54	48	54	48	43	46	42	39	40	37	34	31
5	70	58	50	44	65	55	47	42	48	42	38	42	37	34	36	32	30	27
6	64	52	44	38	60	49	42	36	43	37	33	38	33	29	33	29	26	23
7	60	47	39	33	55	44	37	32	39	33	29	34	30	26	30	26	23	21
8	55	43	35	30	52	40	33	28	36	30	26	31	27	23	27	24	21	19
9	52	39	32	26	48	37	30	25	33	27	23	29	24	21	25	22	19	17
10	48	36	29	24	45	34	27	23	30	25	21	27	22	19	23	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10408	10408	10408
5°	10476	10393	10347
10°	10392	10309	10252
15°	10282	10168	10130
20°	10159	10003	9983
25°	10017	9835	9805
30°	9805	9657	9594
35°	9527	9393	9337
40°	9230	9086	9051
45°	8871	8754	8715
50°	8503	8432	8375
55°	8106	8106	7978
60°	7611	7759	7483
65°	6966	7312	6792
70°	6140	6730	5980
75°	5245	6024	5102
80°	4066	5069	4119
85°	2632	3896	3472



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.3	2.2
10°-20°	449.9	6.1
20°-30°	667.3	9.1
30°-40°	780.8	10.7
40°-50°	777.4	10.6
50°-60°	671.3	9.2
60°-70°	483.2	6.6
70°-80°	253.4	3.5
80°-90°	64.6	0.9
90°-100°	221.9	3.0
100°-110°	602.8	8.2
110°-120°	619.7	8.5
120°-130°	495.5	6.8
130°-140°	389.3	5.3
140°-150°	298.5	4.1
150°-160°	214.7	2.9
160°-170°	131.3	1.8
170°-180°	44.2	0.6
0°-30°	1276.6	17.4
0°-40°	2057.4	28.1
0°-60°	3506.1	47.9
0°-90°	4307.3	58.8
90°-120°	1444.4	19.7
90°-150°	2627.7	35.9
90°-180°	3018.0	41.2
0°-180°	7325.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1692	1692	1692	1692	1692	
5°	1697	1678	1683	1679	1676	161
15°	1615	1594	1597	1594	1591	455
25°	1476	1451	1449	1440	1445	679
35°	1269	1251	1251	1239	1244	793
45°	1020	1011	1006	1003	1002	787
55°	756	754	756	745	744	674
65°	479	493	502	483	467	474
75°	221	241	254	237	215	236
85°	37	49	55	52	49	49
90°	2	6	10	13	13	4
95°	33	121	386	168	113	35
105°	107	167	663	1009	950	114
115°	190	231	531	1056	1202	188
125°	262	298	480	809	954	233
135°	315	350	467	659	743	244
145°	364	390	461	560	602	229
155°	412	426	458	503	517	190
165°	446	452	459	479	480	126
175°	462	464	461	467	465	44
180°	462	462	462	462	462	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1692.2	1692.2	1692.2	1692.2	1692.2
2.5°	1701.8	1687.8	1692.2	1688.5	1680.3
5°	1696.7	1677.7	1683.3	1678.7	1675.8
7.5°	1679.4	1661.9	1666.0	1661.2	1659.4
10°	1663.9	1646.4	1650.5	1644.4	1641.5
12.5°	1646.0	1627.3	1631.4	1625.4	1623.6
15°	1614.7	1594.3	1596.8	1593.8	1590.8
17.5°	1578.3	1557.6	1558.0	1553.3	1552.7
20°	1552.1	1530.2	1528.2	1522.3	1525.2
22.5°	1523.5	1500.4	1498.4	1490.1	1494.2
25°	1476.0	1451.3	1449.2	1440.4	1444.7
27.5°	1421.2	1396.7	1396.7	1384.3	1389.0
30°	1380.6	1357.3	1359.7	1345.0	1350.8
32.5°	1337.7	1316.7	1318.0	1303.2	1309.1
35°	1268.8	1251.3	1250.9	1239.1	1243.5
37.5°	1198.4	1183.0	1180.5	1173.7	1174.9
40°	1149.5	1136.4	1131.6	1127.2	1127.2
42.5°	1098.2	1086.3	1081.5	1078.2	1077.1
45°	1019.8	1011.1	1006.4	1003.4	1001.9
47.5°	942.3	934.1	930.1	927.9	926.5
50°	888.6	882.8	881.2	876.6	875.2
52.5°	834.9	831.4	829.9	824.2	822.7
55°	755.9	754.5	755.9	745.4	744.0
57.5°	673.6	675.9	680.8	666.7	663.2
60°	618.7	624.6	630.7	614.1	608.3
62.5°	562.7	572.0	580.6	561.6	553.4
65°	478.6	493.2	502.4	482.7	466.7
67.5°	397.5	415.6	426.7	405.4	387.3
70°	341.4	361.8	374.2	352.9	332.5
72.5°	292.5	315.3	325.3	305.2	284.8
75°	220.7	241.1	253.5	236.6	214.7
77.5°	156.5	175.8	186.1	171.3	153.3
80°	114.8	135.2	143.1	130.9	116.3
82.5°	81.4	98.3	103.8	96.4	86.5
85°	37.3	48.9	55.2	52.1	49.2
87.5°	9.8	18.9	24.7	25.4	26.5
90°	1.5	5.8	10.4	13.4	13.4
92.5°	13.4	60.8	105.5	45.3	38.3
95°	32.7	121.3	386.4	168.2	113.0
97.5°	54.1	134.0	592.4	460.9	323.7
100°	68.4	142.5	655.4	664.4	536.5
102.5°	82.6	150.9	672.1	821.7	708.9
105°	107.0	166.6	662.9	1009.3	949.7
107.5°	132.3	184.9	624.5	1106.1	1122.7
110°	150.1	198.1	596.0	1125.2	1196.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	165.6	211.2	567.4	1109.4	1216.6
115°	190.2	230.9	530.6	1055.6	1202.4
117.5°	213.4	252.4	507.1	979.3	1144.7
120°	228.9	266.7	496.4	928.2	1092.4
122.5°	242.0	279.7	489.3	876.9	1035.3
125°	261.6	297.9	480.1	808.8	954.2
127.5°	279.1	315.2	475.0	757.2	881.9
130°	289.8	324.7	472.6	724.8	836.7
132.5°	300.5	335.4	470.2	697.2	796.3
135°	315.1	350.0	466.7	658.8	743.1
137.5°	330.8	362.5	464.9	624.9	695.9
140°	340.3	370.9	463.7	603.4	667.3
142.5°	349.9	378.0	462.5	586.5	640.0
145°	364.1	390.3	460.7	559.8	601.9
147.5°	380.2	402.6	459.2	538.8	571.9
150°	390.9	409.8	459.2	526.7	552.9
152.5°	399.2	415.8	458.1	515.9	537.4
155°	411.7	426.2	457.8	502.7	517.2
157.5°	423.9	435.2	457.8	493.7	504.7
160°	431.0	441.2	457.8	487.7	496.4
162.5°	438.1	446.0	458.9	482.9	489.3
165°	445.9	451.7	459.2	478.6	480.1
167.5°	453.9	456.8	460.7	473.5	474.7
170°	456.3	459.2	460.7	471.1	471.1
172.5°	458.6	460.4	460.7	468.8	468.8
175°	462.2	463.7	460.7	466.6	465.2
177.5°	463.4	463.4	459.8	464.5	462.2
180°	462.2	462.2	462.2	462.2	462.2

(END OF REPORT)