

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: P564083

Luminaire Tested: **SQ4-PR1-075U-075D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564083
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-075U-075D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

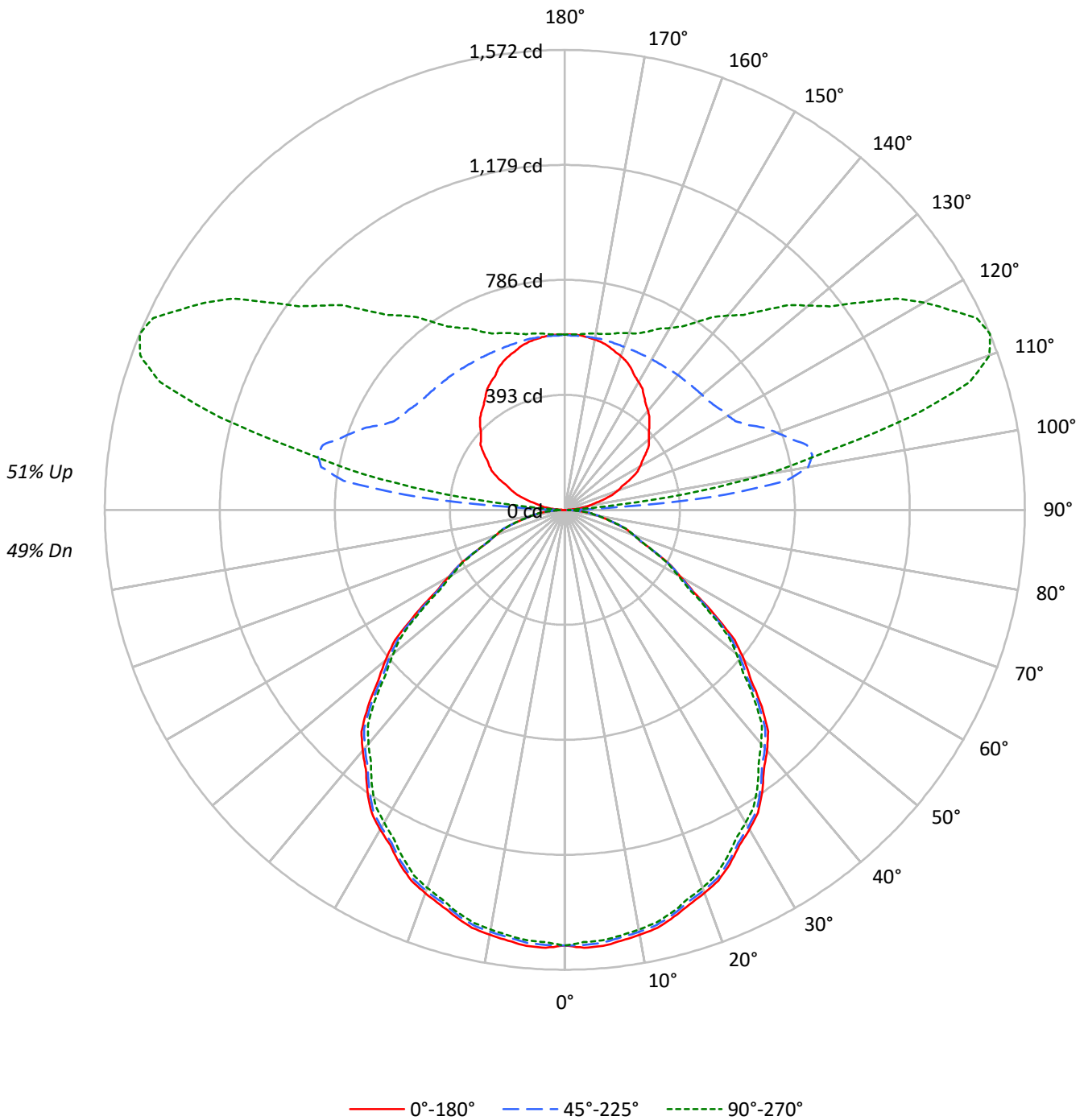
Lumens per Lamp: N/A
Luminaire Lumens: 7625.9 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 68
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				
RC	80					70					50					30				
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	98	98	98	98	83	83	83	68	68	68	55	55	55	49		
1	98	94	90	86	90	86	83	80	73	71	68	60	59	57	49	48	47	42		
2	89	82	76	71	82	76	71	66	64	60	57	53	51	48	44	42	40	35		
3	82	72	65	59	75	67	61	56	57	52	48	47	44	41	39	36	34	30		
4	75	64	56	50	69	59	53	47	51	45	41	42	39	36	35	32	30	26		
5	69	57	49	43	63	53	46	41	45	40	36	38	34	31	31	28	26	23		
6	63	51	43	38	58	48	41	36	41	35	31	35	30	27	29	25	23	20		
7	59	46	39	33	54	43	36	31	37	32	28	31	27	24	26	23	21	18		
8	54	42	35	29	50	39	32	28	34	28	25	29	25	21	24	21	18	16		
9	51	39	31	26	47	36	29	25	31	26	22	26	22	19	22	19	17	14		
10	47	35	28	23	44	33	27	22	29	23	20	24	20	17	21	17	15	13		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9159	9159	9159
5°	9242	9170	9123
10°	9212	9148	9100
15°	9172	9114	9065
20°	9125	9067	8999
25°	9061	9000	8896
30°	8963	8900	8772
35°	8831	8754	8629
40°	8630	8537	8383
45°	8278	8133	7966
50°	7658	7474	7327
55°	6684	6533	6396
60°	5633	5585	5474
65°	4871	4890	4854
70°	4474	4498	4498
75°	4297	4297	4328
80°	4042	4088	4042
85°	3260	3620	3620



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.8	1.8
10°-20°	402.9	5.3
20°-30°	607.7	8.0
30°-40°	724.0	9.5
40°-50°	713.8	9.4
50°-60°	545.6	7.2
60°-70°	337.6	4.4
70°-80°	191.7	2.5
80°-90°	59.9	0.8
90°-100°	282.5	3.7
100°-110°	777.2	10.2
110°-120°	802.2	10.5
120°-130°	642.7	8.4
130°-140°	504.8	6.6
140°-150°	386.9	5.1
150°-160°	278.2	3.6
160°-170°	170.1	2.2
170°-180°	57.3	0.8
0°-30°	1151.4	15.1
0°-40°	1875.4	24.6
0°-60°	3134.8	41.1
0°-90°	3724.0	48.8
90°-120°	1861.9	24.4
90°-150°	3396.4	44.5
90°-180°	3902.0	51.2
0°-180°	7625.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1489	1489	1489	1489	1489	
5°	1497	1480	1485	1480	1478	142
15°	1440	1425	1431	1426	1424	406
25°	1335	1319	1326	1312	1311	614
35°	1176	1162	1166	1150	1149	734
45°	952	939	935	918	916	729
55°	623	613	609	599	596	559
65°	335	332	336	334	334	339
75°	181	181	181	182	182	191
85°	46	49	51	51	51	54
90°	1	5	9	12	12	5
95°	42	154	500	214	136	44
105°	139	214	856	1304	1217	146
115°	246	300	687	1368	1552	243
125°	339	386	623	1054	1235	302
135°	409	454	605	852	965	316
145°	473	505	596	726	782	296
155°	535	553	593	653	672	246
165°	579	586	595	619	623	163
175°	599	600	596	604	603	57
180°	599	599	599	599	599	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1489.1	1489.1	1489.1	1489.1	1489.1
2.5°	1498.3	1485.2	1489.1	1485.8	1478.8
5°	1496.8	1480.4	1485.2	1480.0	1477.5
7.5°	1485.2	1469.2	1473.9	1468.8	1467.3
10°	1474.9	1459.9	1464.7	1459.5	1457.0
12.5°	1463.7	1447.6	1453.4	1447.2	1444.7
15°	1440.3	1425.3	1431.3	1426.2	1423.6
17.5°	1414.7	1398.6	1404.7	1398.7	1395.4
20°	1394.1	1379.1	1385.2	1376.2	1374.9
22.5°	1371.6	1356.5	1362.6	1350.5	1350.3
25°	1335.1	1318.8	1326.2	1312.0	1310.8
27.5°	1291.8	1276.7	1282.8	1268.4	1266.9
30°	1262.0	1247.0	1253.1	1237.6	1235.1
32.5°	1228.2	1214.1	1219.2	1203.8	1202.3
35°	1176.1	1162.3	1165.9	1150.4	1149.2
37.5°	1116.9	1104.3	1106.3	1089.4	1088.1
40°	1074.8	1062.2	1063.2	1045.3	1044.0
42.5°	1028.6	1016.1	1015.0	997.0	995.8
45°	951.7	939.1	935.0	918.3	915.8
47.5°	863.9	851.4	843.7	830.0	828.3
50°	800.3	787.8	781.1	769.5	765.7
52.5°	731.6	719.0	713.4	702.8	699.0
55°	623.3	613.3	609.2	598.9	596.4
57.5°	520.5	513.7	512.5	502.5	501.5
60°	457.9	454.1	454.0	445.0	445.0
62.5°	404.5	401.8	403.8	397.8	396.8
65°	334.7	332.2	336.0	333.5	333.5
67.5°	279.6	279.6	281.9	280.9	280.9
70°	248.8	248.8	250.1	250.1	250.1
72.5°	221.1	220.1	223.4	223.4	222.4
75°	180.8	180.8	180.8	182.1	182.1
77.5°	140.8	141.1	142.1	141.8	140.8
80°	114.1	115.4	115.4	114.1	114.1
82.5°	87.5	88.7	88.8	88.5	87.5
85°	46.2	48.7	51.3	51.3	51.3
87.5°	13.6	18.4	22.3	22.8	21.8
90°	1.3	5.0	8.9	11.5	11.5
92.5°	17.6	75.2	130.2	50.0	41.0
95°	42.1	154.2	499.5	213.6	136.4
97.5°	68.6	171.0	762.3	587.4	414.4
100°	87.9	181.4	844.9	852.8	695.8
102.5°	106.3	193.8	866.3	1058.0	914.0
105°	138.9	213.7	856.4	1304.2	1217.0
107.5°	170.0	238.3	807.7	1424.8	1450.7
110°	192.4	254.7	771.0	1454.8	1544.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	212.8	273.1	734.3	1435.5	1572.1
115°	246.0	299.5	686.9	1367.8	1552.2
117.5°	277.6	326.9	656.8	1272.7	1481.3
120°	296.9	344.3	643.6	1201.5	1417.1
122.5°	314.3	361.6	634.4	1139.1	1343.7
125°	339.0	386.3	623.2	1054.2	1234.9
127.5°	362.4	407.5	615.8	983.3	1141.8
130°	374.7	420.8	611.7	941.2	1085.8
132.5°	388.9	435.0	608.6	904.2	1034.8
135°	409.1	453.9	605.3	852.5	964.7
137.5°	427.9	469.5	602.5	810.8	903.3
140°	442.2	480.8	601.5	783.1	866.6
142.5°	454.4	490.1	599.5	758.3	829.9
145°	472.8	505.2	596.4	726.4	782.5
147.5°	492.4	520.3	594.9	698.1	743.0
150°	504.6	529.6	593.9	682.6	717.5
152.5°	515.9	538.8	592.8	669.2	698.1
155°	535.2	552.7	592.6	652.9	671.6
157.5°	549.2	563.5	592.6	639.5	652.5
160°	559.4	570.7	592.6	632.3	642.3
162.5°	567.6	576.8	593.6	626.1	634.1
165°	578.6	586.0	595.1	619.4	623.2
167.5°	586.2	591.9	596.4	613.8	614.8
170°	591.3	595.0	596.4	611.7	611.7
172.5°	595.4	597.1	596.4	608.6	607.6
175°	598.9	600.2	596.4	604.0	602.8
177.5°	600.0	600.0	595.9	602.0	600.0
180°	598.9	598.9	598.9	598.9	598.9

(END OF REPORT)