

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: P520005

Luminaire Tested: **SQ4-F-075U-075D-830-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520005
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-830-1D-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

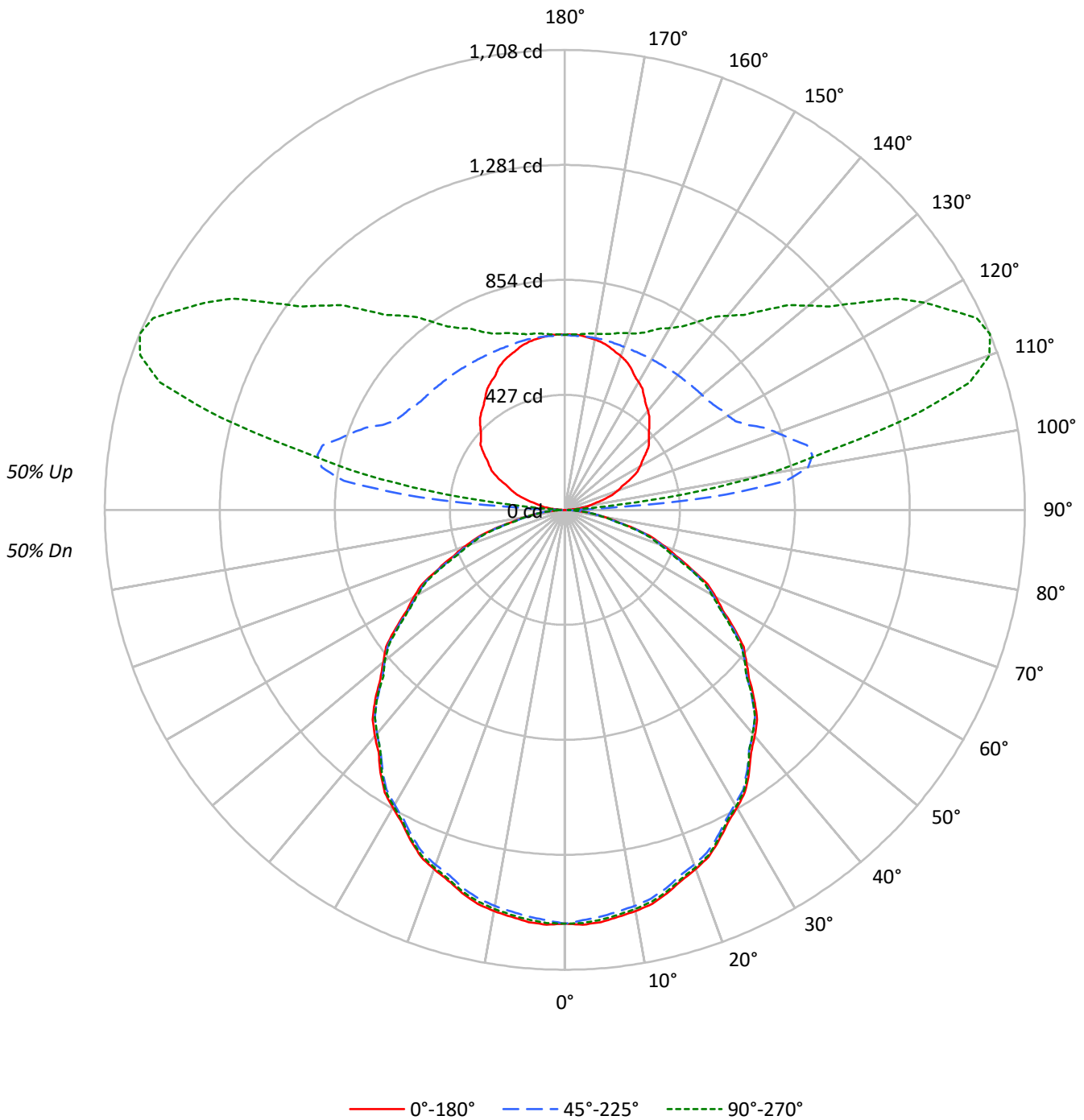
Lumens per Lamp: N/A
Luminaire Lumens: 8435.7 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

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°	9453	9453	9453
5°	9489	9368	9437
10°	9450	9329	9398
15°	9377	9262	9342
20°	9293	9184	9257
25°	9191	9096	9162
30°	9074	8975	9024
35°	8956	8861	8903
40°	8804	8714	8703
45°	8653	8545	8568
50°	8413	8346	8346
55°	8217	8112	8038
60°	7952	7815	7748
65°	7523	7382	7280
70°	7066	6891	6715
75°	6357	6124	5994
80°	5083	4984	4934
85°	3049	3444	3543



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.1	1.7
10°-20°	413.0	4.9
20°-30°	620.4	7.4
30°-40°	740.3	8.8
40°-50°	759.2	9.0
50°-60°	676.5	8.0
60°-70°	504.4	6.0
70°-80°	273.5	3.2
80°-90°	64.5	0.8
90°-100°	306.9	3.6
100°-110°	844.3	10.0
110°-120°	871.5	10.3
120°-130°	698.2	8.3
130°-140°	548.4	6.5
140°-150°	420.3	5.0
150°-160°	302.2	3.6
160°-170°	184.8	2.2
170°-180°	62.3	0.7
0°-30°	1178.4	14.0
0°-40°	1918.7	22.7
0°-60°	3354.5	39.8
0°-90°	4197.0	49.8
90°-120°	2022.6	24.0
90°-150°	3689.5	43.7
90°-180°	4239.0	50.3
0°-180°	8435.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1537	1537	1537	1537	1537	
5°	1537	1534	1517	1530	1528	146
15°	1473	1470	1454	1466	1467	415
25°	1354	1353	1340	1347	1350	624
35°	1193	1190	1180	1180	1186	745
45°	995	991	982	982	985	766
55°	766	765	756	750	750	684
65°	517	517	507	502	500	515
75°	268	262	258	254	252	281
85°	43	46	49	49	50	60
90°	1	6	10	12	12	4
95°	46	168	543	232	148	48
105°	151	232	930	1417	1322	159
115°	267	325	746	1486	1686	264
125°	368	420	677	1145	1342	329
135°	444	493	658	926	1048	343
145°	514	549	648	789	850	322
155°	581	600	644	709	730	267
165°	628	637	646	673	677	177
175°	651	652	648	656	655	62
180°	651	651	651	651	651	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1536.8	1536.8	1536.8	1536.8	1536.8
2.5°	1542.3	1539.1	1525.6	1536.7	1535.6
5°	1536.8	1534.1	1517.2	1529.8	1528.4
7.5°	1524.2	1521.3	1504.7	1517.2	1517.0
10°	1513.1	1509.0	1493.6	1506.1	1504.7
12.5°	1498.6	1494.5	1479.1	1491.6	1490.3
15°	1472.6	1470.0	1454.5	1465.8	1467.1
17.5°	1443.1	1438.0	1424.2	1435.1	1436.4
20°	1419.7	1415.7	1403.1	1412.8	1414.2
22.5°	1395.2	1391.2	1378.5	1388.3	1389.7
25°	1354.3	1352.9	1340.3	1347.4	1350.0
27.5°	1310.0	1306.1	1296.0	1301.4	1304.1
30°	1277.6	1274.9	1263.7	1268.0	1270.6
32.5°	1244.1	1242.6	1232.5	1234.5	1238.3
35°	1192.7	1189.9	1180.1	1180.2	1185.7
37.5°	1135.5	1132.6	1124.4	1123.0	1125.2
40°	1096.5	1092.4	1085.3	1083.9	1083.9
42.5°	1056.4	1053.3	1044.1	1041.7	1045.0
45°	994.8	990.8	982.3	982.3	985.0
47.5°	928.2	926.6	916.8	912.3	913.4
50°	879.2	881.9	872.2	866.8	872.2
52.5°	836.8	835.2	826.5	821.0	823.2
55°	766.3	764.9	756.5	749.6	749.6
57.5°	695.5	692.0	683.2	678.0	682.2
60°	646.4	645.2	635.3	625.7	629.8
62.5°	597.4	595.0	585.2	578.8	581.9
65°	516.9	516.9	507.2	501.6	500.2
67.5°	446.4	439.9	434.5	427.7	425.8
70°	392.9	387.4	383.2	377.5	373.4
72.5°	340.5	337.2	330.7	325.1	324.3
75°	267.5	262.1	257.7	253.6	252.2
77.5°	190.3	189.2	185.3	183.1	183.9
80°	143.5	143.5	140.7	140.7	139.3
82.5°	101.2	102.2	101.8	99.5	99.2
85°	43.2	46.0	48.8	48.8	50.2
87.5°	8.1	14.4	14.2	14.8	14.8
90°	1.4	5.5	9.7	12.4	12.4
92.5°	19.1	81.7	141.4	54.3	44.6
95°	45.7	167.6	542.7	232.0	148.1
97.5°	74.4	185.7	828.1	638.0	450.2
100°	95.6	197.0	917.9	926.4	755.9
102.5°	115.4	210.5	941.0	1149.3	992.9
105°	150.9	232.1	930.3	1416.8	1322.0
107.5°	184.7	258.8	877.4	1547.8	1575.9
110°	209.0	276.7	837.6	1580.3	1677.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	231.2	296.7	797.7	1559.4	1707.7
115°	267.2	325.4	746.2	1485.9	1686.2
117.5°	301.6	355.2	713.5	1382.6	1609.2
120°	322.6	374.0	699.1	1305.2	1539.4
122.5°	341.4	392.8	689.1	1237.4	1459.6
125°	368.3	419.7	677.0	1145.2	1341.5
127.5°	393.7	442.7	668.9	1068.2	1240.4
130°	407.0	457.1	664.5	1022.4	1179.5
132.5°	422.5	472.6	661.2	982.2	1124.1
135°	444.4	493.1	657.6	926.2	1048.0
137.5°	464.9	510.1	654.6	880.8	981.2
140°	480.4	522.3	653.4	850.7	941.3
142.5°	493.7	532.4	651.2	823.8	901.5
145°	513.6	548.8	647.9	789.0	850.0
147.5°	534.9	565.3	646.2	758.3	807.0
150°	548.2	575.2	645.1	741.5	779.4
152.5°	560.4	585.3	644.0	726.9	758.3
155°	581.4	600.4	643.7	709.2	729.6
157.5°	596.7	612.1	643.7	694.8	708.7
160°	607.7	619.9	643.7	686.9	697.7
162.5°	616.6	626.6	644.9	680.2	688.9
165°	628.5	636.7	646.5	672.8	677.0
167.5°	636.9	643.0	647.9	666.7	667.9
170°	642.3	646.4	647.9	664.5	664.5
172.5°	646.7	648.7	647.9	661.1	660.0
175°	650.6	652.0	647.9	656.1	654.8
177.5°	651.7	651.7	647.3	654.0	651.7
180°	650.6	650.6	650.6	650.6	650.6

(END OF REPORT)