

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: P520236

Luminaire Tested: **SQ4-F-100U-100D-935-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520236
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-100U-100D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

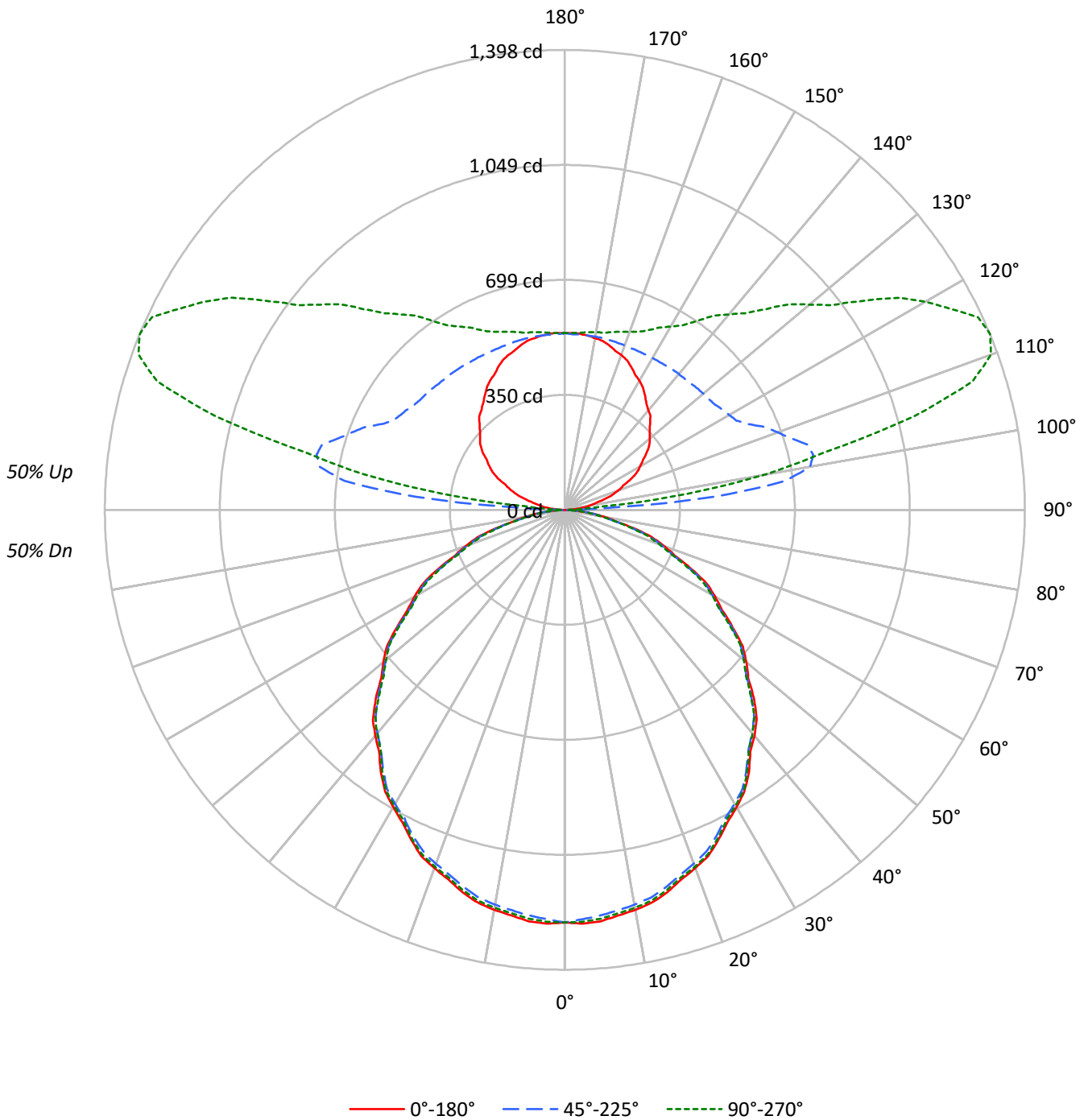
Lumens per Lamp: N/A
Luminaire Lumens: 6912.0 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 57.9
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	70	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	39	35
3	81	71	64	58	74	66	60	55	56	51	47	47	43	40	38	36	33	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	44	39	35	37	33	30	31	27	25	22
6	63	50	42	36	57	47	40	34	40	34	30	34	29	26	28	24	22	19
7	58	45	37	32	53	42	35	30	36	31	26	31	26	23	25	22	19	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	19	17	20	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11573	11573	11573
5°	11625	11466	11553
10°	11566	11421	11509
15°	11496	11340	11430
20°	11377	11242	11335
25°	11254	11122	11209
30°	11116	10997	11052
35°	10977	10841	10898
40°	10794	10670	10681
45°	10604	10458	10424
50°	10330	10207	10182
55°	10026	9915	9846
60°	9723	9547	9516
65°	9248	9040	8966
70°	8592	8384	8222
75°	7671	7429	7272
80°	6312	6084	5807
85°	3737	4097	4192



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.4	1.7
10°-20°	337.1	4.9
20°-30°	506.3	7.3
30°-40°	604.2	8.7
40°-50°	619.3	9.0
50°-60°	551.5	8.0
60°-70°	411.1	5.9
70°-80°	222.6	3.2
80°-90°	51.8	0.7
90°-100°	251.5	3.6
100°-110°	694.4	10.0
110°-120°	716.1	10.4
120°-130°	575.5	8.3
130°-140°	452.3	6.5
140°-150°	346.9	5.0
150°-160°	249.3	3.6
160°-170°	152.5	2.2
170°-180°	51.4	0.7
0°-30°	961.8	13.9
0°-40°	1566.0	22.7
0°-60°	2736.8	39.6
0°-90°	3422.3	49.5
90°-120°	1662.0	24.0
90°-150°	3036.6	43.9
90°-180°	3490.0	50.5
0°-180°	6912.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1254	1254	1254	1254	1254	
5°	1255	1253	1238	1249	1247	119
15°	1204	1199	1187	1197	1197	339
25°	1106	1103	1092	1099	1101	509
35°	975	970	962	964	968	608
45°	813	808	802	797	799	625
55°	623	624	616	610	612	558
65°	424	422	414	410	411	419
75°	215	213	208	204	204	229
85°	35	39	39	40	40	49
90°	2	3	7	8	9	3
95°	37	136	456	188	122	40
105°	124	191	764	1166	1098	132
115°	222	268	615	1218	1385	218
125°	304	346	558	944	1108	271
135°	366	406	542	764	862	283
145°	424	454	535	651	700	266
155°	479	495	531	584	602	221
165°	518	525	534	554	559	146
175°	537	538	534	542	540	51
180°	537	537	537	537	537	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1254.4	1254.4	1254.4	1254.4	1254.4
2.5°	1259.1	1256.5	1245.4	1254.3	1253.0
5°	1255.2	1252.7	1238.0	1249.1	1247.4
7.5°	1243.5	1241.0	1228.0	1238.3	1236.8
10°	1234.6	1232.0	1219.1	1229.4	1228.5
12.5°	1222.9	1220.3	1207.3	1217.6	1216.8
15°	1203.6	1199.4	1187.2	1196.7	1196.7
17.5°	1178.1	1174.9	1163.6	1171.5	1171.7
20°	1158.8	1156.3	1145.0	1153.6	1154.5
22.5°	1139.5	1137.0	1124.4	1132.3	1133.8
25°	1105.5	1102.9	1092.5	1098.6	1101.1
27.5°	1070.3	1066.6	1056.3	1061.8	1063.5
30°	1043.4	1041.8	1032.2	1034.9	1037.4
32.5°	1015.2	1013.5	1005.4	1006.7	1011.2
35°	974.6	970.3	962.5	964.3	967.6
37.5°	926.5	924.5	916.9	915.9	919.1
40°	896.2	892.8	885.9	884.2	886.8
42.5°	863.2	859.8	851.4	849.8	853.0
45°	812.7	808.5	801.5	797.2	798.9
47.5°	756.2	756.2	749.0	744.1	746.6
50°	719.7	719.7	711.1	706.9	709.4
52.5°	681.9	682.5	673.3	671.0	670.1
55°	623.3	624.1	616.4	610.4	612.1
57.5°	566.8	565.0	556.0	552.1	552.9
60°	526.9	524.3	517.4	511.5	515.7
62.5°	486.3	485.1	478.2	471.4	470.9
65°	423.6	421.9	414.1	409.8	410.7
67.5°	361.3	359.2	352.1	346.0	348.2
70°	318.5	318.5	310.8	307.3	304.8
72.5°	279.3	275.9	270.2	265.3	263.5
75°	215.2	212.7	208.4	204.0	204.0
77.5°	156.6	154.5	151.7	148.7	147.9
80°	118.8	118.0	114.5	113.5	109.3
82.5°	83.7	83.5	81.4	79.2	79.1
85°	35.3	38.6	38.7	39.6	39.6
87.5°	6.5	10.9	11.0	9.8	10.0
90°	1.7	3.4	6.8	7.7	8.6
92.5°	15.4	64.2	114.8	41.9	32.6
95°	37.0	136.1	456.3	187.6	122.1
97.5°	61.2	152.4	675.9	520.4	376.9
100°	79.0	162.2	757.0	762.4	619.5
102.5°	96.3	173.4	772.9	942.0	806.6
105°	123.8	190.9	764.0	1166.3	1098.2
107.5°	152.9	212.8	721.3	1274.5	1299.3
110°	173.6	227.3	688.3	1297.8	1378.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	192.1	243.9	657.4	1279.4	1398.4
115°	221.7	267.9	615.3	1218.0	1385.3
117.5°	247.5	293.5	587.6	1131.8	1322.0
120°	264.7	310.0	576.6	1073.4	1264.9
122.5°	281.1	324.6	567.7	1018.8	1200.3
125°	304.2	346.2	557.7	943.8	1107.7
127.5°	323.8	365.8	551.9	880.4	1021.8
130°	336.8	378.9	549.1	841.6	970.2
132.5°	349.2	389.3	546.3	809.1	925.5
135°	366.1	405.6	542.3	764.5	861.9
137.5°	385.0	420.9	540.2	727.0	810.2
140°	395.3	430.6	538.8	702.0	775.2
142.5°	407.0	439.6	537.4	679.8	744.2
145°	424.5	454.0	535.4	650.8	700.4
147.5°	441.4	467.1	533.5	626.3	664.8
150°	453.8	474.7	532.8	611.7	642.8
152.5°	463.3	483.0	532.1	599.2	624.9
155°	478.7	494.6	531.1	583.9	602.4
157.5°	492.7	505.0	531.2	572.8	585.4
160°	501.0	511.9	531.9	566.5	575.7
162.5°	507.9	517.5	532.6	561.0	568.2
165°	518.2	524.9	533.7	554.4	558.6
167.5°	526.1	530.1	534.5	550.4	551.7
170°	530.2	533.6	534.5	548.2	548.2
172.5°	533.7	535.7	534.5	545.5	544.9
175°	537.0	537.9	534.5	542.2	540.5
177.5°	538.4	537.8	534.4	539.1	537.7
180°	537.0	537.0	537.0	537.0	537.0

(END OF REPORT)