

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: P520260

Luminaire Tested: **SQ4-F-100U-125D-935-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520260
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G3-1910-536-20)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-100U-125D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

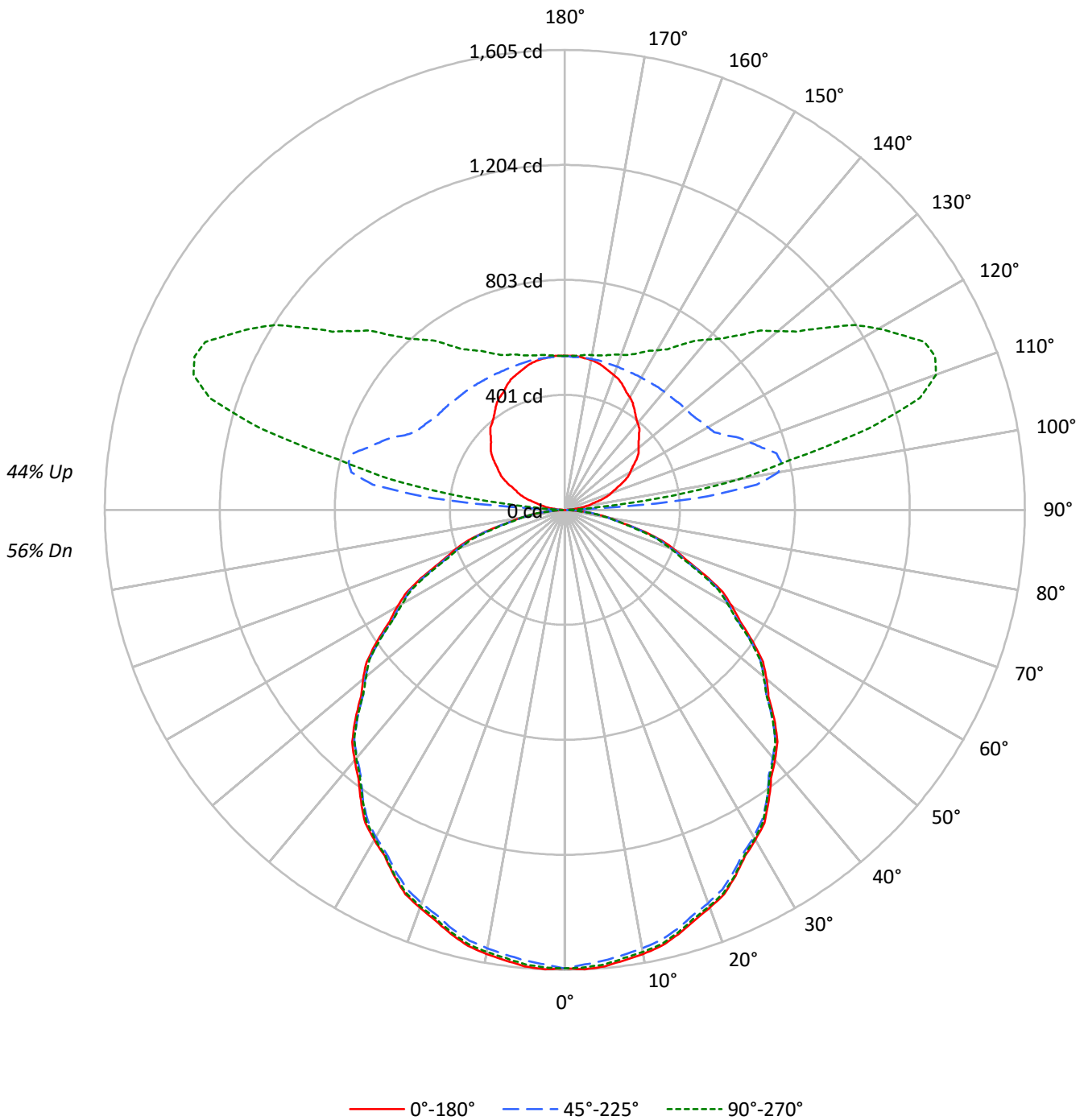
Lumens per Lamp: N/A
Luminaire Lumens: 7856.4 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 68.7
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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	56
1	99	95	91	87	92	88	85	82	76	73	71	65	63	61	54	53	52	47
2	90	83	76	71	83	77	71	67	66	62	59	57	54	51	48	45	43	39
3	82	73	65	59	76	68	61	56	58	53	49	50	46	43	42	39	37	33
4	75	64	56	50	69	60	53	47	52	46	42	44	40	37	37	34	32	28
5	69	57	49	43	64	53	46	40	46	41	36	40	35	32	34	30	28	24
6	63	51	43	37	59	48	41	35	42	36	31	36	31	28	31	27	24	21
7	59	46	38	32	54	43	36	31	38	32	28	33	28	25	28	24	21	19
8	54	42	34	29	50	39	32	27	34	29	25	30	25	22	26	22	19	17
9	51	38	31	26	47	36	29	24	32	26	22	27	23	20	24	20	17	15
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	22	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14763	14763	14763
5°	14811	14624	14746
10°	14743	14562	14678
15°	14644	14468	14586
20°	14509	14345	14456
25°	14344	14192	14308
30°	14166	14045	14120
35°	13965	13847	13856
40°	13735	13587	13629
45°	13478	13328	13352
50°	13185	13031	12994
55°	12849	12664	12637
60°	12431	12155	12090
65°	11784	11533	11383
70°	10974	10690	10547
75°	9764	9543	9261
80°	7954	7720	7672
85°	4753	5409	5409



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.0	1.9
10°-20°	430.0	5.5
20°-30°	646.0	8.2
30°-40°	770.8	9.8
40°-50°	790.1	10.1
50°-60°	704.2	9.0
60°-70°	524.2	6.7
70°-80°	284.0	3.6
80°-90°	66.3	0.8
90°-100°	251.5	3.2
100°-110°	694.4	8.8
110°-120°	716.1	9.1
120°-130°	575.5	7.3
130°-140°	452.3	5.8
140°-150°	346.9	4.4
150°-160°	249.3	3.2
160°-170°	152.5	1.9
170°-180°	51.4	0.7
0°-30°	1227.0	15.6
0°-40°	1997.8	25.4
0°-60°	3492.1	44.4
0°-90°	4366.7	55.6
90°-120°	1662.0	21.2
90°-150°	3036.6	38.7
90°-180°	3490.0	44.4
0°-180°	7856.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1600	1600	1600	1600	1600	
5°	1599	1597	1579	1593	1592	152
15°	1533	1530	1515	1528	1527	432
25°	1409	1406	1394	1402	1406	649
35°	1240	1239	1229	1229	1230	775
45°	1033	1030	1022	1020	1023	796
55°	799	796	787	781	786	713
65°	540	536	528	525	521	535
75°	274	274	268	262	260	291
85°	45	51	51	52	51	62
90°	2	3	7	8	9	4
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°	1600.1	1600.1	1600.1	1600.1	1600.1
2.5°	1605.0	1602.3	1588.2	1600.0	1598.0
5°	1599.2	1596.7	1579.0	1593.0	1592.2
7.5°	1585.6	1582.4	1566.3	1579.5	1577.9
10°	1573.7	1571.2	1554.3	1567.5	1566.7
12.5°	1558.9	1556.4	1539.5	1552.7	1552.6
15°	1533.1	1529.7	1514.7	1527.9	1527.1
17.5°	1502.3	1498.4	1483.5	1493.9	1495.6
20°	1477.7	1475.2	1461.0	1470.7	1472.4
22.5°	1452.4	1449.0	1434.2	1445.4	1447.1
25°	1409.0	1406.5	1394.1	1402.1	1405.5
27.5°	1361.5	1361.5	1350.0	1355.7	1357.8
30°	1329.7	1329.7	1318.3	1321.9	1325.4
32.5°	1296.0	1293.1	1282.4	1285.2	1288.7
35°	1239.9	1239.1	1229.4	1229.4	1230.2
37.5°	1182.0	1179.5	1169.0	1169.8	1173.9
40°	1140.4	1138.7	1128.1	1128.1	1131.6
42.5°	1098.1	1096.4	1087.2	1085.9	1087.2
45°	1033.0	1030.4	1021.5	1019.9	1023.3
47.5°	963.6	964.3	953.7	951.3	953.2
50°	918.6	918.6	907.9	902.7	905.3
52.5°	871.3	869.9	859.4	853.5	859.5
55°	798.8	796.1	787.3	781.2	785.6
57.5°	724.5	720.4	711.6	704.9	707.3
60°	673.7	667.7	658.7	653.5	655.2
62.5°	620.9	617.5	608.0	600.0	603.8
65°	539.8	536.4	528.3	524.8	521.4
67.5°	460.4	458.1	449.1	445.3	443.1
70°	406.8	402.6	396.3	391.8	391.0
72.5°	354.7	349.8	343.5	339.7	337.5
75°	273.9	273.9	267.7	262.4	259.8
77.5°	196.9	197.6	192.5	190.7	189.5
80°	149.7	149.7	145.3	143.5	144.4
82.5°	104.6	106.7	105.1	102.7	101.5
85°	44.9	51.0	51.1	51.9	51.1
87.5°	8.1	13.3	14.8	13.6	12.4
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)