

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: P519848

Luminaire Tested: **SQ4-F-025U-100D-930-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519848
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-025U-100D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

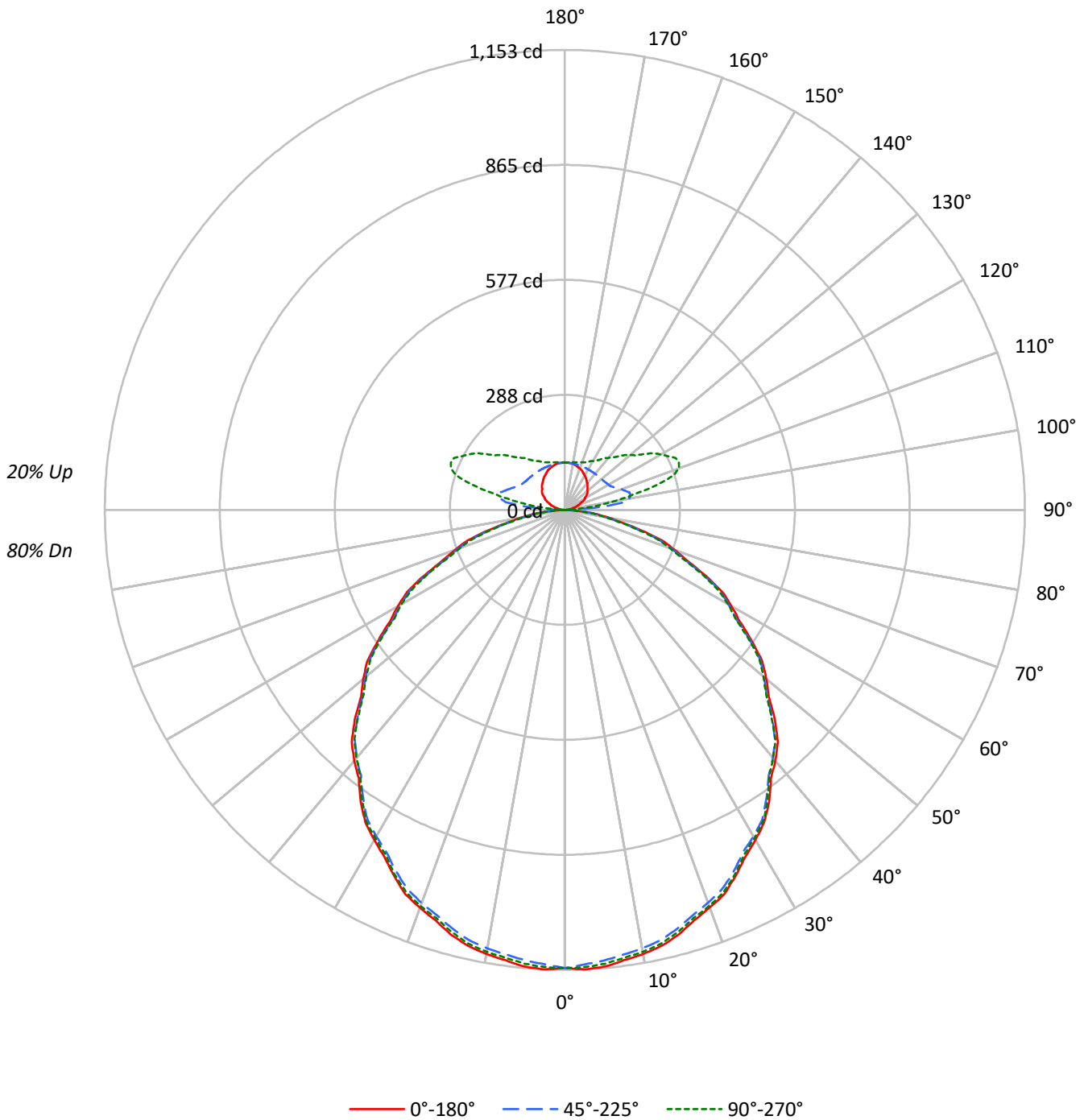
Lumens per Lamp: N/A
Luminaire Lumens: 3902.5 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 38.7
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	114	114	114	114	109	109	109	109	100	100	100	92	92	92	84	84	84	80
1	105	100	96	92	100	96	92	89	88	85	83	81	79	77	74	73	71	68
2	95	87	81	75	91	84	78	73	77	72	68	71	67	64	65	62	60	56
3	87	77	69	63	83	74	67	61	68	62	57	63	58	54	58	54	51	48
4	79	68	59	53	76	65	58	52	60	54	49	56	50	46	51	47	43	41
5	73	61	52	46	70	58	50	44	54	47	42	50	44	40	46	42	38	35
6	67	54	46	40	64	52	45	39	49	42	37	45	39	35	42	37	33	31
7	62	49	41	35	59	48	40	34	44	38	33	41	35	31	38	33	30	27
8	58	45	37	31	55	43	36	30	40	34	29	38	32	28	35	30	26	24
9	54	41	33	28	52	40	32	27	37	31	26	35	29	25	32	28	24	22
10	51	38	30	25	48	37	29	25	34	28	24	32	27	23	30	25	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10599	10599	10599
5°	10647	10501	10580
10°	10592	10460	10541
15°	10529	10385	10468
20°	10420	10296	10381
25°	10305	10185	10267
30°	10180	10071	10122
35°	10052	9928	9981
40°	9886	9771	9781
45°	9711	9577	9547
50°	9462	9348	9325
55°	9182	9082	9017
60°	8903	8743	8715
65°	8468	8281	8211
70°	7869	7680	7529
75°	7026	6802	6662
80°	5781	5568	5324
85°	3419	3758	3843



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.4	2.8
10°-20°	308.8	7.9
20°-30°	463.7	11.9
30°-40°	553.3	14.2
40°-50°	567.2	14.5
50°-60°	505.1	12.9
60°-70°	376.5	9.6
70°-80°	203.8	5.2
80°-90°	47.0	1.2
90°-100°	57.8	1.5
100°-110°	151.9	3.9
110°-120°	157.6	4.0
120°-130°	126.4	3.2
130°-140°	99.2	2.5
140°-150°	76.1	2.0
150°-160°	54.8	1.4
160°-170°	33.5	0.9
170°-180°	11.3	0.3
0°-30°	880.9	22.6
0°-40°	1434.2	36.8
0°-60°	2506.5	64.2
0°-90°	3133.9	80.3
90°-120°	367.3	9.4
90°-150°	668.9	17.1
90°-180°	769.0	19.7
0°-180°	3902.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1149	1149	1149	1149	1149	
5°	1150	1147	1134	1144	1142	109
15°	1102	1098	1087	1096	1096	311
25°	1012	1010	1000	1006	1008	466
35°	892	889	882	883	886	557
45°	744	740	734	730	732	573
55°	571	572	565	559	561	511
65°	388	386	379	375	376	384
75°	197	195	191	187	187	210
85°	32	35	36	36	36	45
90°	1	2	6	3	3	1
95°	8	30	100	51	35	8
105°	27	42	168	255	238	29
115°	49	59	135	268	306	48
125°	68	76	122	207	244	60
135°	81	89	119	167	189	62
145°	94	99	117	142	154	59
155°	106	109	117	129	132	49
165°	114	116	117	122	123	32
175°	119	119	118	119	119	11
180°	119	119	119	119	119	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1148.8	1148.8	1148.8	1148.8	1148.8
2.5°	1153.2	1150.7	1140.5	1148.8	1147.5
5°	1149.6	1147.3	1133.8	1144.0	1142.4
7.5°	1138.9	1136.6	1124.7	1134.1	1132.7
10°	1130.6	1128.3	1116.5	1125.9	1125.1
12.5°	1119.9	1117.6	1105.8	1115.2	1114.4
15°	1102.3	1098.4	1087.2	1095.9	1095.9
17.5°	1078.9	1076.0	1065.6	1073.0	1073.1
20°	1061.3	1059.0	1048.7	1056.5	1057.3
22.5°	1043.6	1041.3	1029.8	1037.0	1038.4
25°	1012.3	1010.0	1000.5	1006.1	1008.5
27.5°	980.2	976.9	967.4	972.4	974.1
30°	955.6	954.1	945.3	947.8	950.1
32.5°	929.8	928.2	920.8	922.0	926.1
35°	892.5	888.7	881.5	883.1	886.2
37.5°	848.5	846.7	839.7	838.8	841.7
40°	820.8	817.7	811.3	809.8	812.1
42.5°	790.5	787.4	779.8	778.3	781.2
45°	744.3	740.4	734.0	730.1	731.7
47.5°	692.6	692.6	685.9	681.4	683.8
50°	659.2	659.2	651.3	647.4	649.7
52.5°	624.4	625.1	616.6	614.5	613.7
55°	570.8	571.6	564.6	559.0	560.6
57.5°	519.1	517.4	509.2	505.6	506.3
60°	482.5	480.3	473.8	468.5	472.3
62.5°	445.3	444.3	437.9	431.7	431.3
65°	387.9	386.4	379.3	375.3	376.1
67.5°	330.8	329.0	322.5	316.9	318.8
70°	291.7	291.7	284.7	281.4	279.1
72.5°	255.7	252.7	247.4	242.9	241.3
75°	197.1	194.8	190.8	186.9	186.9
77.5°	143.5	141.5	138.9	136.2	135.4
80°	108.8	108.0	104.8	104.0	100.2
82.5°	76.6	76.5	74.6	72.5	72.4
85°	32.3	35.4	35.5	36.3	36.3
87.5°	5.8	9.8	10.1	8.2	8.2
90°	0.8	2.3	6.1	3.1	3.1
92.5°	3.2	15.4	34.0	15.1	9.7
95°	7.6	29.9	99.6	51.3	35.0
97.5°	13.2	32.9	149.0	118.5	87.3
100°	17.5	35.4	164.2	166.4	129.2
102.5°	21.1	37.8	168.4	207.2	175.5
105°	27.3	41.5	168.0	255.0	237.9
107.5°	33.7	46.8	158.4	279.9	284.0
110°	38.0	49.9	150.5	286.2	304.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	42.2	53.5	143.2	282.2	309.5
115°	48.7	59.1	134.6	268.4	306.4
117.5°	54.9	64.4	128.7	249.4	291.4
120°	58.5	67.5	126.2	236.6	277.5
122.5°	62.2	71.1	124.4	223.8	264.1
125°	67.7	75.8	122.3	206.8	244.0
127.5°	72.1	80.4	120.7	193.2	224.5
130°	74.5	83.4	120.2	184.6	213.6
132.5°	76.9	85.8	119.5	177.2	203.3
135°	80.6	88.8	118.6	167.0	189.3
137.5°	84.4	92.4	118.4	159.2	177.6
140°	87.5	94.8	117.9	153.2	170.2
142.5°	89.9	96.7	117.9	148.8	163.5
145°	93.5	99.4	117.1	142.4	153.5
147.5°	97.1	102.9	117.1	137.1	146.2
150°	99.6	104.8	117.1	133.9	141.4
152.5°	102.0	106.0	117.1	131.5	137.2
155°	105.6	108.7	117.1	128.6	132.3
157.5°	108.4	111.3	117.1	126.0	128.7
160°	110.2	112.4	117.1	124.7	126.2
162.5°	112.0	113.7	117.1	123.5	124.9
165°	114.0	115.5	117.1	121.7	123.1
167.5°	115.9	116.6	117.9	120.9	121.5
170°	117.1	117.9	117.9	120.8	120.8
172.5°	117.7	117.9	117.9	120.2	119.7
175°	118.6	118.6	117.9	119.4	119.4
177.5°	118.6	118.6	118.0	119.2	118.6
180°	118.6	118.6	118.6	118.6	118.6

(END OF REPORT)