

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: P519801

Luminaire Tested: **SQ4-F-025U-050D-930-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519801
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G3-1910-536-17)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-025U-050D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

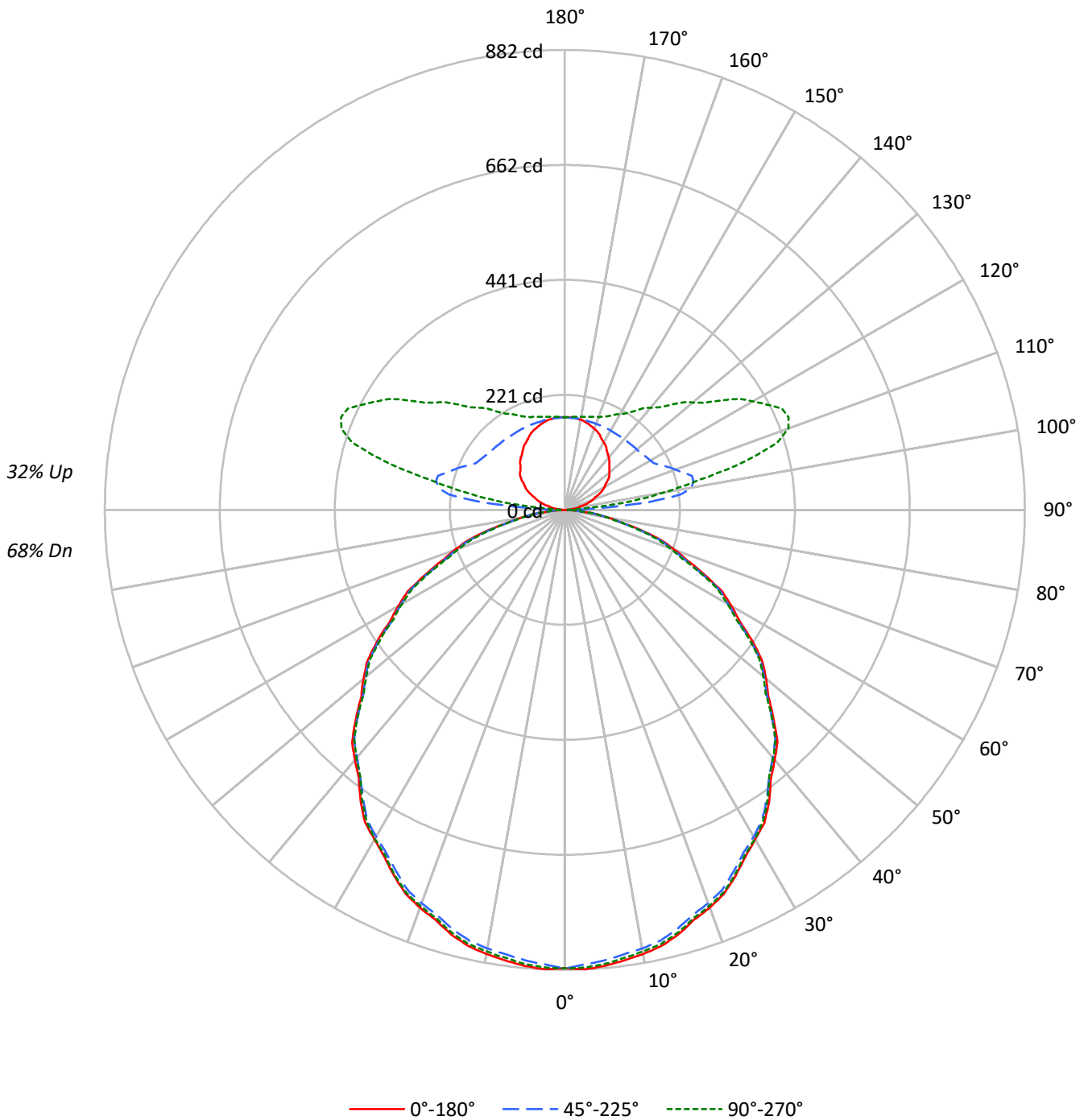
Lumens per Lamp: N/A
Luminaire Lumens: 3553.5 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 33.8
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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	68
1	102	97	93	90	96	92	88	85	82	79	77	72	70	69	64	62	61	57
2	93	85	78	73	87	80	75	70	72	67	63	63	60	57	56	54	51	47
3	84	75	67	61	79	71	64	58	63	58	53	56	52	48	50	46	43	40
4	77	66	58	51	72	62	55	49	56	50	45	50	45	41	44	40	37	34
5	71	59	50	44	67	56	48	42	50	44	39	45	40	36	40	36	32	30
6	65	53	44	38	61	50	42	37	45	39	34	40	35	31	36	32	29	26
7	60	48	39	34	57	45	38	32	41	35	30	37	32	28	33	29	25	23
8	56	43	35	30	53	41	34	29	37	31	27	34	28	25	30	26	23	20
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	28	24	20	18
10	49	36	29	24	46	35	28	23	32	26	22	29	24	20	26	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5408	5408	5408
5°	5421	5356	5399
10°	5403	5337	5373
15°	5366	5299	5344
20°	5316	5254	5293
25°	5256	5192	5240
30°	5183	5141	5175
35°	5125	5065	5090
40°	5027	4980	4989
45°	4924	4884	4884
50°	4821	4775	4753
55°	4708	4645	4620
60°	4532	4459	4431
65°	4317	4231	4178
70°	4021	3937	3852
75°	3610	3496	3413
80°	2919	2880	2795
85°	1750	1990	2075



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.9	2.3
10°-20°	236.2	6.6
20°-30°	354.8	10.0
30°-40°	423.5	11.9
40°-50°	434.0	12.2
50°-60°	387.1	10.9
60°-70°	288.3	8.1
70°-80°	156.5	4.4
80°-90°	37.2	1.0
90°-100°	86.7	2.4
100°-110°	227.9	6.4
110°-120°	236.3	6.7
120°-130°	189.6	5.3
130°-140°	148.7	4.2
140°-150°	114.2	3.2
150°-160°	82.2	2.3
160°-170°	50.3	1.4
170°-180°	17.0	0.5
0°-30°	674.0	19.0
0°-40°	1097.5	30.9
0°-60°	1918.6	54.0
0°-90°	2400.6	67.6
90°-120°	550.9	15.5
90°-150°	1003.4	28.2
90°-180°	1153.0	32.4
0°-180°	3553.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	879	879	879	879	879	
5°	878	877	867	876	874	83
15°	843	840	832	839	839	237
25°	774	772	765	770	772	357
35°	683	680	674	674	678	426
45°	566	567	562	560	562	437
55°	439	439	433	430	431	391
65°	297	295	291	287	287	294
75°	152	151	147	145	144	160
85°	25	27	28	29	29	35
90°	1	3	9	5	5	2
95°	11	45	149	77	52	13
105°	41	62	252	382	357	44
115°	73	89	202	403	460	72
125°	102	114	184	310	366	90
135°	121	133	178	250	284	94
145°	140	149	176	214	230	88
155°	158	163	176	193	198	73
165°	171	173	176	182	185	48
175°	178	178	177	179	179	17
180°	178	178	178	178	178	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	879.2	879.2	879.2	879.2	879.2
2.5°	882.0	880.2	872.7	879.2	878.3
5°	878.0	876.9	867.4	875.6	874.5
7.5°	871.7	869.4	860.1	868.1	866.9
10°	865.1	862.8	854.5	861.5	860.3
12.5°	856.6	855.2	846.0	853.0	852.8
15°	842.7	840.4	832.1	839.2	839.2
17.5°	824.3	823.0	815.0	821.8	820.8
20°	812.1	809.8	802.7	808.6	808.6
22.5°	797.0	795.6	788.5	793.6	794.5
25°	774.4	772.2	765.1	769.8	772.1
27.5°	749.5	747.6	741.7	744.9	746.4
30°	729.8	729.8	723.9	725.1	728.6
32.5°	711.8	711.8	705.0	706.2	707.8
35°	682.6	680.4	674.5	674.5	677.9
37.5°	648.7	647.6	643.8	643.1	644.1
40°	626.1	625.0	620.2	621.4	621.4
42.5°	603.6	602.4	597.6	596.1	597.9
45°	566.1	567.3	561.5	560.3	561.5
47.5°	529.2	529.2	524.5	521.2	523.0
50°	503.8	503.8	499.0	496.7	496.7
52.5°	477.4	478.3	472.7	469.4	470.3
55°	439.0	439.0	433.2	429.6	430.8
57.5°	396.7	396.7	390.8	387.3	389.4
60°	368.4	368.4	362.5	359.0	360.2
62.5°	340.2	340.2	334.3	330.7	330.9
65°	296.6	295.4	290.7	287.1	287.1
67.5°	254.7	251.7	248.1	243.4	243.4
70°	223.6	222.5	218.9	214.2	214.2
72.5°	195.3	193.3	189.7	186.0	186.0
75°	151.9	150.7	147.1	144.8	143.6
77.5°	108.8	107.9	107.6	104.3	105.2
80°	82.4	82.4	81.3	78.9	78.9
82.5°	58.9	59.8	57.7	57.2	56.3
85°	24.8	27.0	28.2	29.4	29.4
87.5°	4.9	8.2	8.5	8.5	8.5
90°	1.1	3.3	9.1	4.6	4.6
92.5°	4.8	23.0	51.0	22.7	14.6
95°	11.4	44.8	149.4	76.9	52.5
97.5°	19.9	49.2	223.5	177.7	130.9
100°	26.2	53.0	246.3	249.6	193.8
102.5°	31.7	56.7	252.7	310.8	263.1
105°	41.0	62.2	252.0	382.5	356.9
107.5°	50.7	70.3	237.6	419.7	426.0
110°	57.0	74.8	225.8	429.4	456.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	63.4	80.4	214.8	423.3	464.4
115°	72.9	88.6	201.8	402.7	459.5
117.5°	82.3	96.6	192.9	374.0	437.2
120°	87.8	101.2	189.3	354.9	416.2
122.5°	93.3	106.7	186.6	335.7	396.1
125°	101.5	113.7	183.6	310.3	366.0
127.5°	108.1	120.6	181.0	289.8	336.8
130°	111.7	125.1	180.2	276.9	320.4
132.5°	115.4	128.8	179.2	265.9	304.9
135°	120.8	133.2	177.9	250.4	283.9
137.5°	126.6	138.6	177.7	239.0	266.4
140°	131.1	142.2	176.7	229.8	255.4
142.5°	134.8	145.0	176.7	223.3	245.4
145°	140.2	149.2	175.6	213.6	230.4
147.5°	145.8	154.5	175.6	205.6	219.4
150°	149.4	157.1	175.6	200.9	212.1
152.5°	153.0	159.1	175.6	197.2	205.7
155°	158.5	163.0	175.6	192.8	198.4
157.5°	162.6	166.8	175.6	188.9	192.9
160°	165.4	168.7	175.6	187.1	189.3
162.5°	168.0	170.5	175.6	185.2	187.4
165°	171.0	173.3	175.6	182.5	184.8
167.5°	173.8	174.9	176.7	181.3	182.2
170°	175.6	176.7	176.7	181.3	181.3
172.5°	176.5	176.7	176.7	180.4	179.5
175°	177.9	177.9	176.7	179.0	179.0
177.5°	177.9	177.9	176.9	178.7	177.9
180°	177.9	177.9	177.9	177.9	177.9

(END OF REPORT)