

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: P519800

Luminaire Tested: **SQ4-F-025U-050D-930-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519800
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-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

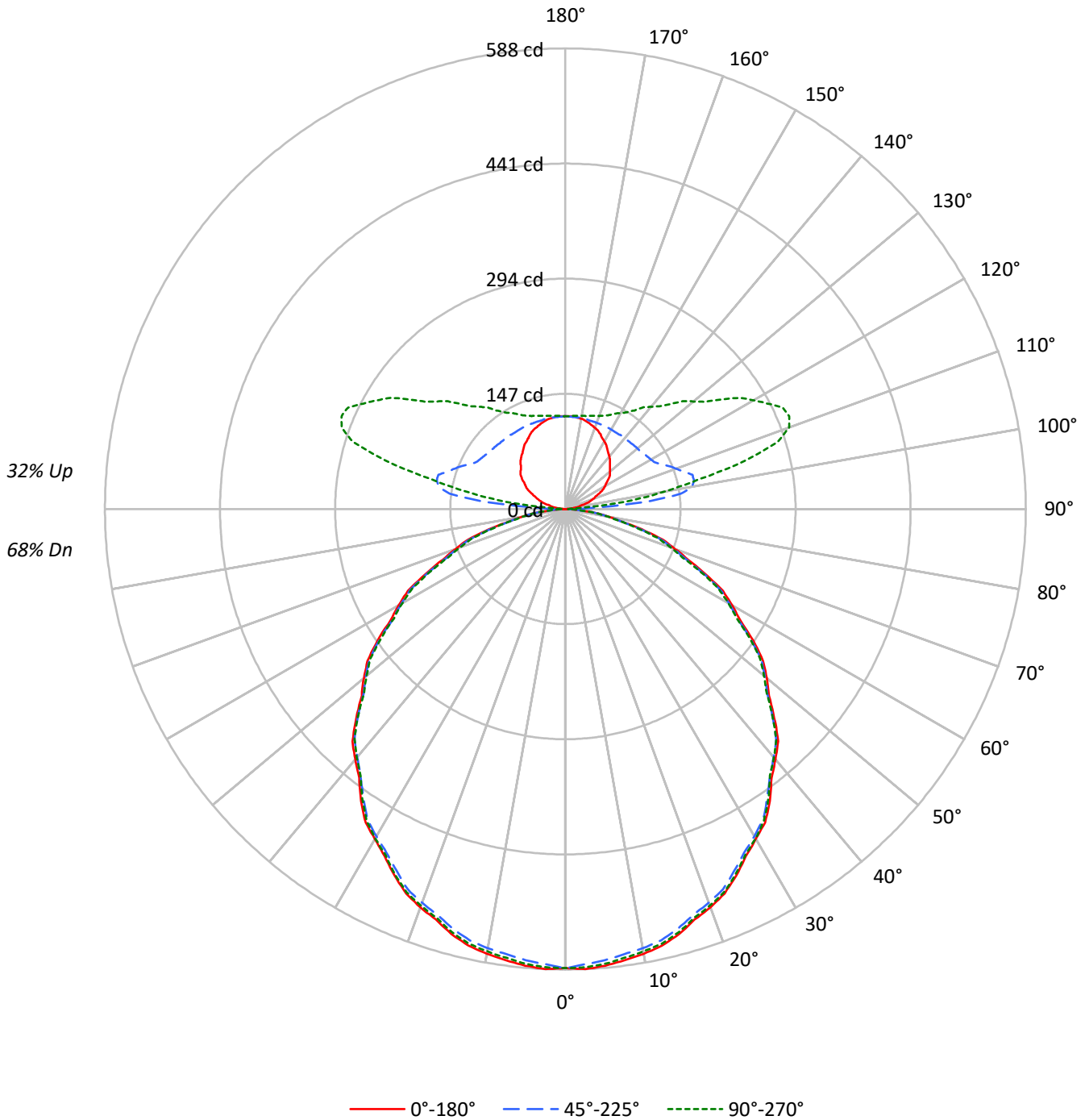
Lumens per Lamp: N/A
Luminaire Lumens: 2369.1 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 22.1
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	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°	5407	5407	5407
5°	5421	5356	5399
10°	5403	5336	5374
15°	5367	5299	5344
20°	5316	5254	5293
25°	5256	5192	5240
30°	5183	5141	5174
35°	5126	5064	5091
40°	5027	4981	4990
45°	4926	4884	4884
50°	4821	4775	4752
55°	4708	4644	4618
60°	4532	4460	4430
65°	4316	4233	4181
70°	4022	3936	3852
75°	3611	3497	3411
80°	2917	2874	2795
85°	1747	1990	2075



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.3	2.3
10°-20°	157.5	6.6
20°-30°	236.5	10.0
30°-40°	282.4	11.9
40°-50°	289.4	12.2
50°-60°	258.1	10.9
60°-70°	192.2	8.1
70°-80°	104.3	4.4
80°-90°	24.8	1.0
90°-100°	57.8	2.4
100°-110°	151.9	6.4
110°-120°	157.6	6.7
120°-130°	126.4	5.3
130°-140°	99.2	4.2
140°-150°	76.1	3.2
150°-160°	54.8	2.3
160°-170°	33.5	1.4
170°-180°	11.3	0.5
0°-30°	449.3	19.0
0°-40°	731.7	30.9
0°-60°	1279.1	54.0
0°-90°	1600.4	67.6
90°-120°	367.3	15.5
90°-150°	668.9	28.2
90°-180°	769.0	32.5
0°-180°	2369.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	586	586	586	586	586	
5°	585	585	578	584	583	56
15°	562	560	555	560	560	158
25°	516	515	510	513	515	238
35°	455	454	450	450	452	284
45°	378	378	374	374	374	291
55°	293	293	289	286	287	261
65°	198	197	194	192	192	196
75°	101	100	98	96	96	107
85°	16	18	19	20	20	23
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°	586.1	586.1	586.1	586.1	586.1
2.5°	588.0	586.8	581.8	586.1	585.5
5°	585.3	584.6	578.3	583.7	583.0
7.5°	581.1	579.6	573.4	578.7	578.0
10°	576.7	575.2	569.6	574.4	573.6
12.5°	571.0	570.1	564.0	568.8	568.6
15°	561.9	560.3	554.8	559.5	559.5
17.5°	549.5	548.6	543.3	547.9	547.3
20°	541.4	539.9	535.1	539.1	539.1
22.5°	531.4	530.5	525.8	529.0	529.6
25°	516.3	514.7	510.0	513.2	514.7
27.5°	499.6	498.5	494.5	496.6	497.7
30°	486.5	486.5	482.6	483.4	485.7
32.5°	474.6	474.6	470.1	470.8	471.9
35°	455.1	453.6	449.6	449.6	452.0
37.5°	432.5	431.7	429.2	428.7	429.3
40°	417.4	416.7	413.6	414.3	414.3
42.5°	402.4	401.6	398.5	397.4	398.6
45°	377.5	378.2	374.3	373.5	374.3
47.5°	352.8	352.8	349.7	347.5	348.7
50°	335.9	335.9	332.7	331.1	331.1
52.5°	318.3	318.9	315.1	313.0	313.6
55°	292.7	292.7	288.7	286.4	287.1
57.5°	264.5	264.5	260.5	258.1	259.5
60°	245.6	245.6	241.7	239.3	240.1
62.5°	226.8	226.8	222.8	220.5	220.7
65°	197.7	197.0	193.9	191.5	191.5
67.5°	169.8	167.8	165.4	162.3	162.3
70°	149.1	148.3	145.9	142.8	142.8
72.5°	130.3	128.9	126.5	123.9	123.9
75°	101.3	100.5	98.1	96.5	95.7
77.5°	72.5	71.9	71.7	69.5	70.1
80°	54.9	54.9	54.1	52.6	52.6
82.5°	39.2	39.8	38.5	38.2	37.5
85°	16.5	18.0	18.8	19.6	19.6
87.5°	3.3	5.4	5.6	5.6	5.6
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)