

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: P519792

Luminaire Tested: **SQ4-F-025U-050D-835-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519792
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-835-1D-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

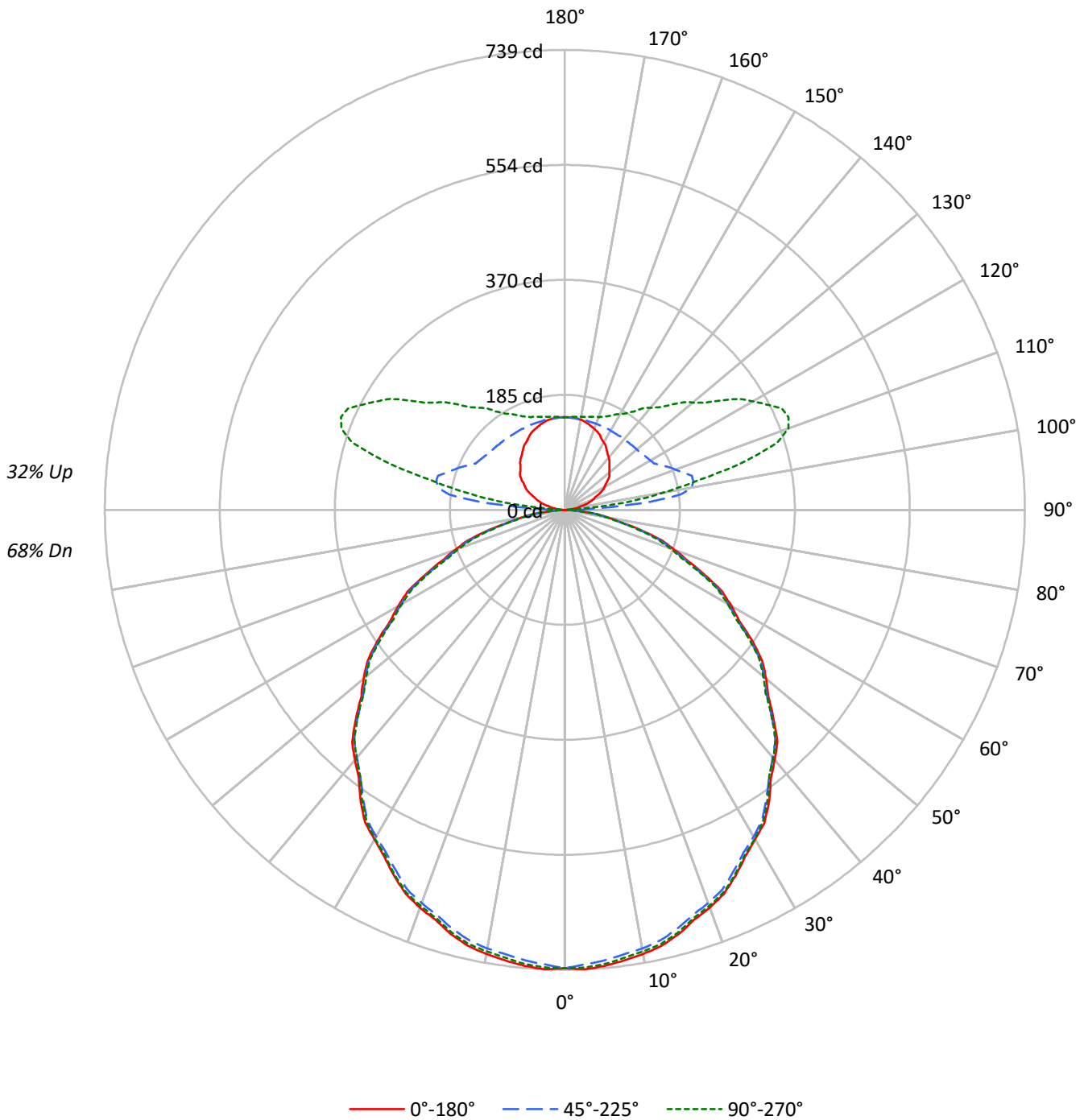
Lumens per Lamp: N/A
Luminaire Lumens: 2977.1 lumens
Efficiency: N/A
Efficacy: 134.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

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	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°	6796	6796	6796
5°	6813	6730	6785
10°	6790	6707	6753
15°	6743	6658	6716
20°	6680	6603	6651
25°	6605	6524	6585
30°	6514	6460	6503
35°	6441	6364	6397
40°	6318	6259	6270
45°	6189	6136	6136
50°	6057	6001	5972
55°	5916	5837	5805
60°	5694	5604	5567
65°	5425	5318	5253
70°	5055	4947	4842
75°	4534	4395	4288
80°	3666	3613	3512
85°	2191	2509	2615



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.5	2.3
10°-20°	197.9	6.6
20°-30°	297.3	10.0
30°-40°	354.8	11.9
40°-50°	363.6	12.2
50°-60°	324.3	10.9
60°-70°	241.5	8.1
70°-80°	131.1	4.4
80°-90°	31.2	1.0
90°-100°	72.6	2.4
100°-110°	191.0	6.4
110°-120°	198.0	6.7
120°-130°	158.8	5.3
130°-140°	124.6	4.2
140°-150°	95.6	3.2
150°-160°	68.9	2.3
160°-170°	42.1	1.4
170°-180°	14.2	0.5
0°-30°	564.7	19.0
0°-40°	919.5	30.9
0°-60°	1607.4	54.0
0°-90°	2011.1	67.6
90°-120°	461.6	15.5
90°-150°	840.7	28.2
90°-180°	966.0	32.4
0°-180°	2977.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	737	737	737	737	737	
5°	736	735	727	734	733	70
15°	706	704	697	703	703	199
25°	649	647	641	645	647	299
35°	572	570	565	565	568	357
45°	474	475	470	469	470	366
55°	368	368	363	360	361	328
65°	248	248	244	241	241	246
75°	127	126	123	121	120	134
85°	21	23	24	25	25	29
90°	1	3	8	4	4	1
95°	10	38	125	64	44	11
105°	34	52	211	320	299	36
115°	61	74	169	337	385	60
125°	85	95	154	260	307	75
135°	101	112	149	210	238	78
145°	118	125	147	179	193	74
155°	133	136	147	162	166	61
165°	143	145	147	153	155	40
175°	149	149	148	150	150	14
180°	149	149	149	149	149	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	736.6	736.6	736.6	736.6	736.6
2.5°	739.0	737.4	731.1	736.6	735.8
5°	735.6	734.6	726.7	733.6	732.6
7.5°	730.3	728.3	720.6	727.3	726.3
10°	724.8	722.8	715.9	721.8	720.8
12.5°	717.7	716.5	708.8	714.7	714.5
15°	706.0	704.0	697.1	703.1	703.1
17.5°	690.6	689.5	682.7	688.5	687.7
20°	680.4	678.4	672.5	677.4	677.4
22.5°	667.8	666.6	660.7	664.8	665.6
25°	648.8	646.9	640.9	644.9	646.9
27.5°	627.9	626.3	621.4	624.0	625.4
30°	611.4	611.4	606.4	607.5	610.4
32.5°	596.4	596.4	590.6	591.6	593.0
35°	571.9	569.9	565.0	565.1	568.0
37.5°	543.5	542.5	539.4	538.8	539.6
40°	524.6	523.6	519.7	520.6	520.6
42.5°	505.6	504.7	500.7	499.3	500.9
45°	474.3	475.3	470.3	469.4	470.3
47.5°	443.3	443.3	439.4	436.6	438.2
50°	422.0	422.0	418.1	416.1	416.1
52.5°	399.9	400.7	396.0	393.2	394.0
55°	367.8	367.8	362.9	359.9	360.9
57.5°	332.3	332.3	327.4	324.4	326.2
60°	308.6	308.6	303.7	300.7	301.7
62.5°	285.0	285.0	280.0	277.1	277.3
65°	248.5	247.5	243.6	240.6	240.6
67.5°	213.4	210.9	207.9	203.9	203.9
70°	187.4	186.4	183.4	179.5	179.5
72.5°	163.7	161.9	159.0	155.8	155.8
75°	127.2	126.2	123.3	121.3	120.3
77.5°	91.1	90.3	90.1	87.4	88.2
80°	69.0	69.0	68.0	66.1	66.1
82.5°	49.3	50.1	48.3	47.9	47.1
85°	20.7	22.7	23.7	24.7	24.7
87.5°	4.1	6.8	7.1	7.1	7.1
90°	1.0	2.9	7.6	3.8	3.8
92.5°	4.0	19.3	42.8	18.9	12.2
95°	9.6	37.6	125.1	64.5	44.0
97.5°	16.6	41.3	187.3	148.9	109.6
100°	22.0	44.4	206.4	209.1	162.4
102.5°	26.6	47.5	211.7	260.5	220.5
105°	34.4	52.1	211.1	320.5	299.0
107.5°	42.4	58.9	199.1	351.7	356.9
110°	47.8	62.7	189.2	359.7	382.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	53.1	67.3	180.0	354.6	389.0
115°	61.2	74.2	169.1	337.3	385.0
117.5°	69.0	81.0	161.6	313.4	366.3
120°	73.6	84.8	158.6	297.3	348.7
122.5°	78.2	89.4	156.3	281.2	331.9
125°	85.0	95.3	153.8	259.9	306.6
127.5°	90.5	101.0	151.7	242.8	282.2
130°	93.6	104.9	150.9	232.0	268.4
132.5°	96.6	107.9	150.2	222.7	255.4
135°	101.2	111.5	149.0	209.8	237.9
137.5°	106.0	116.1	148.8	200.2	223.2
140°	109.8	119.2	148.1	192.5	214.0
142.5°	112.9	121.5	148.1	187.1	205.6
145°	117.5	124.9	147.1	178.9	193.0
147.5°	122.1	129.3	147.1	172.2	183.8
150°	125.1	131.7	147.1	168.3	177.7
152.5°	128.2	133.2	147.1	165.3	172.3
155°	132.8	136.5	147.1	161.5	166.2
157.5°	136.2	139.7	147.1	158.3	161.6
160°	138.5	141.3	147.1	156.7	158.6
162.5°	140.8	142.9	147.1	155.1	157.0
165°	143.3	145.2	147.1	152.8	154.8
167.5°	145.6	146.5	148.1	151.9	152.7
170°	147.1	148.1	148.1	151.9	151.9
172.5°	147.9	148.1	148.1	151.1	150.4
175°	149.0	149.0	148.1	150.0	150.0
177.5°	149.0	149.0	148.3	149.8	149.0
180°	149.0	149.0	149.0	149.0	149.0

(END OF REPORT)