

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: P519920

Luminaire Tested: **SQ4-F-050U-075D-930-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519920
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G3-1910-536-18)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-050U-075D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

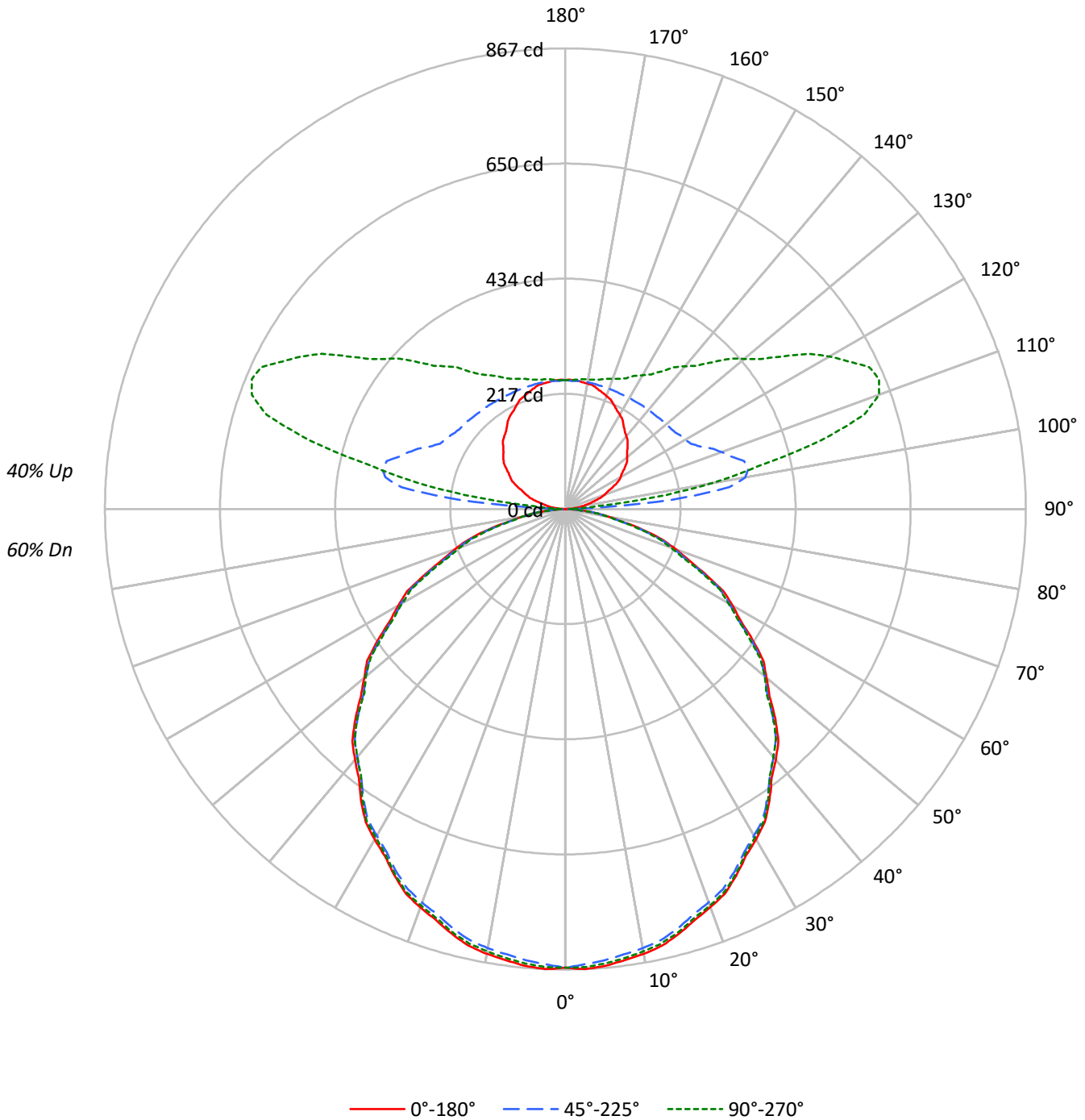
Lumens per Lamp: N/A
Luminaire Lumens: 3943.9 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 36.3
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	109	109	109	109	102	102	102	102	89	89	89	76	76	76	65	65	65	60
1	100	96	92	88	93	89	86	83	78	75	73	67	65	64	58	56	55	50
2	91	83	77	72	85	78	73	68	68	64	60	59	56	53	51	48	46	42
3	83	73	66	60	77	69	62	57	60	55	51	52	48	45	45	42	39	35
4	76	65	57	50	71	61	54	48	53	48	43	46	42	38	40	36	34	30
5	70	58	49	43	65	54	47	41	48	42	37	42	37	33	36	32	29	26
6	64	52	43	37	60	49	41	36	43	37	32	38	33	29	32	29	26	23
7	59	47	39	33	55	44	37	31	39	33	28	34	29	26	30	26	23	20
8	55	42	35	29	51	40	33	28	35	30	25	31	26	23	27	23	20	18
9	51	39	31	26	48	37	30	25	33	27	23	29	24	21	25	21	18	16
10	48	36	28	23	45	34	27	22	30	24	20	27	22	19	23	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7969	7969	7969
5°	7999	7898	7956
10°	7967	7865	7923
15°	7906	7809	7875
20°	7835	7742	7804
25°	7749	7669	7725
30°	7650	7567	7608
35°	7550	7471	7506
40°	7423	7347	7337
45°	7295	7204	7223
50°	7092	7036	7036
55°	6928	6840	6777
60°	6704	6589	6532
65°	6342	6224	6137
70°	5956	5808	5662
75°	5361	5165	5051
80°	4288	4203	4160
85°	2572	2911	2975



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.5	2.1
10°-20°	232.1	5.9
20°-30°	348.7	8.8
30°-40°	416.1	10.6
40°-50°	426.7	10.8
50°-60°	380.2	9.6
60°-70°	283.5	7.2
70°-80°	153.7	3.9
80°-90°	36.3	0.9
90°-100°	116.5	3.0
100°-110°	316.6	8.0
110°-120°	325.5	8.3
120°-130°	260.2	6.6
130°-140°	204.5	5.2
140°-150°	156.8	4.0
150°-160°	112.7	2.9
160°-170°	69.0	1.7
170°-180°	23.2	0.6
0°-30°	662.3	16.8
0°-40°	1078.4	27.3
0°-60°	1885.3	47.8
0°-90°	2358.9	59.8
90°-120°	758.6	19.2
90°-150°	1380.1	35.0
90°-180°	1585.0	40.2
0°-180°	3943.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	864	864	864	864	864	
5°	864	862	853	860	859	82
15°	828	826	818	824	824	233
25°	761	760	753	757	759	351
35°	670	669	663	663	666	419
45°	559	557	552	552	554	430
55°	431	430	425	421	421	385
65°	290	290	285	282	281	289
75°	150	147	145	142	142	158
85°	24	26	28	28	28	34
90°	1	3	6	7	7	2
95°	17	64	203	88	59	18
105°	56	88	348	530	499	60
115°	100	121	279	554	632	99
125°	137	156	252	425	501	122
135°	165	184	245	346	390	128
145°	191	205	242	294	316	120
155°	216	224	240	264	272	100
165°	234	237	241	251	252	66
175°	243	244	242	245	244	23
180°	243	243	243	243	243	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	863.7	863.7	863.7	863.7	863.7
2.5°	866.9	865.0	857.5	863.7	863.1
5°	863.7	862.2	852.8	859.8	859.0
7.5°	856.7	855.0	845.7	852.8	852.6
10°	850.4	848.2	839.5	846.5	845.7
12.5°	842.3	840.0	831.3	838.3	837.5
15°	827.7	826.2	817.6	823.9	824.5
17.5°	811.1	808.2	800.4	806.5	807.3
20°	798.0	795.6	788.5	794.0	794.8
22.5°	784.2	781.8	774.8	780.3	781.0
25°	761.2	760.4	753.3	757.2	758.8
27.5°	736.3	734.1	728.4	731.5	732.9
30°	718.1	716.6	710.3	712.7	714.1
32.5°	699.3	698.4	692.7	693.9	696.0
35°	670.3	668.8	663.3	663.4	666.4
37.5°	638.2	636.5	632.0	631.2	632.5
40°	616.3	614.0	610.0	609.2	609.2
42.5°	593.7	592.0	586.8	585.4	587.3
45°	559.1	556.8	552.1	552.1	553.6
47.5°	521.7	520.8	515.3	512.8	513.4
50°	494.1	495.7	490.2	487.1	490.2
52.5°	470.3	469.4	464.5	461.4	462.6
55°	430.7	429.9	425.2	421.3	421.3
57.5°	390.9	388.9	384.0	381.1	383.4
60°	363.3	362.6	357.1	351.6	354.0
62.5°	335.8	334.4	328.9	325.3	327.0
65°	290.5	290.5	285.1	281.9	281.1
67.5°	250.9	247.2	244.1	240.4	239.3
70°	220.8	217.8	215.3	212.2	209.9
72.5°	191.4	189.5	185.9	182.7	182.3
75°	150.4	147.3	144.9	142.5	141.7
77.5°	107.0	106.4	104.1	102.9	103.3
80°	80.7	80.7	79.1	79.1	78.3
82.5°	56.9	57.5	57.2	55.9	55.8
85°	24.3	25.8	27.5	27.5	28.1
87.5°	4.5	8.1	8.0	8.3	8.3
90°	0.8	3.0	5.5	7.1	7.1
92.5°	7.1	31.9	55.4	23.8	20.1
95°	17.2	63.7	202.9	88.3	59.4
97.5°	28.5	70.4	311.2	242.1	170.1
100°	35.9	74.9	344.2	348.9	281.8
102.5°	43.4	79.3	353.0	431.6	372.3
105°	56.2	87.5	348.2	530.1	498.8
107.5°	69.5	97.1	328.0	580.9	589.7
110°	78.8	104.0	313.0	590.9	628.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	86.9	110.9	298.0	582.7	639.0
115°	99.9	121.3	278.7	554.4	631.5
117.5°	112.1	132.6	266.3	514.4	601.2
120°	120.2	140.0	260.7	487.5	573.8
122.5°	127.1	146.9	257.0	460.6	543.7
125°	137.4	156.4	252.1	424.8	501.1
127.5°	146.6	165.5	249.4	397.7	463.2
130°	152.2	170.5	248.3	380.7	439.5
132.5°	157.8	176.1	247.0	366.2	418.2
135°	165.4	183.8	245.1	346.0	390.3
137.5°	173.8	190.4	244.1	328.2	365.4
140°	178.8	194.8	243.6	316.9	350.5
142.5°	183.8	198.5	243.0	308.0	336.1
145°	191.3	205.0	242.0	294.0	316.2
147.5°	199.7	211.5	241.2	283.0	300.4
150°	205.3	215.2	241.2	276.6	290.4
152.5°	209.7	218.3	240.6	270.9	282.2
155°	216.2	223.8	240.4	264.0	271.6
157.5°	222.7	228.5	240.4	259.3	265.0
160°	226.4	231.7	240.4	256.1	260.7
162.5°	230.1	234.2	241.0	253.6	257.0
165°	234.1	237.3	241.2	251.4	252.1
167.5°	238.4	239.9	242.0	248.8	249.3
170°	239.6	241.2	242.0	247.5	247.5
172.5°	240.9	241.8	242.0	246.2	246.2
175°	242.8	243.6	242.0	245.1	244.3
177.5°	243.4	243.4	241.5	243.9	242.8
180°	242.8	242.8	242.8	242.8	242.8

(END OF REPORT)