

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: P519824

Luminaire Tested: **SQ4-F-025U-075D-930-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519824
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-025U-075D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

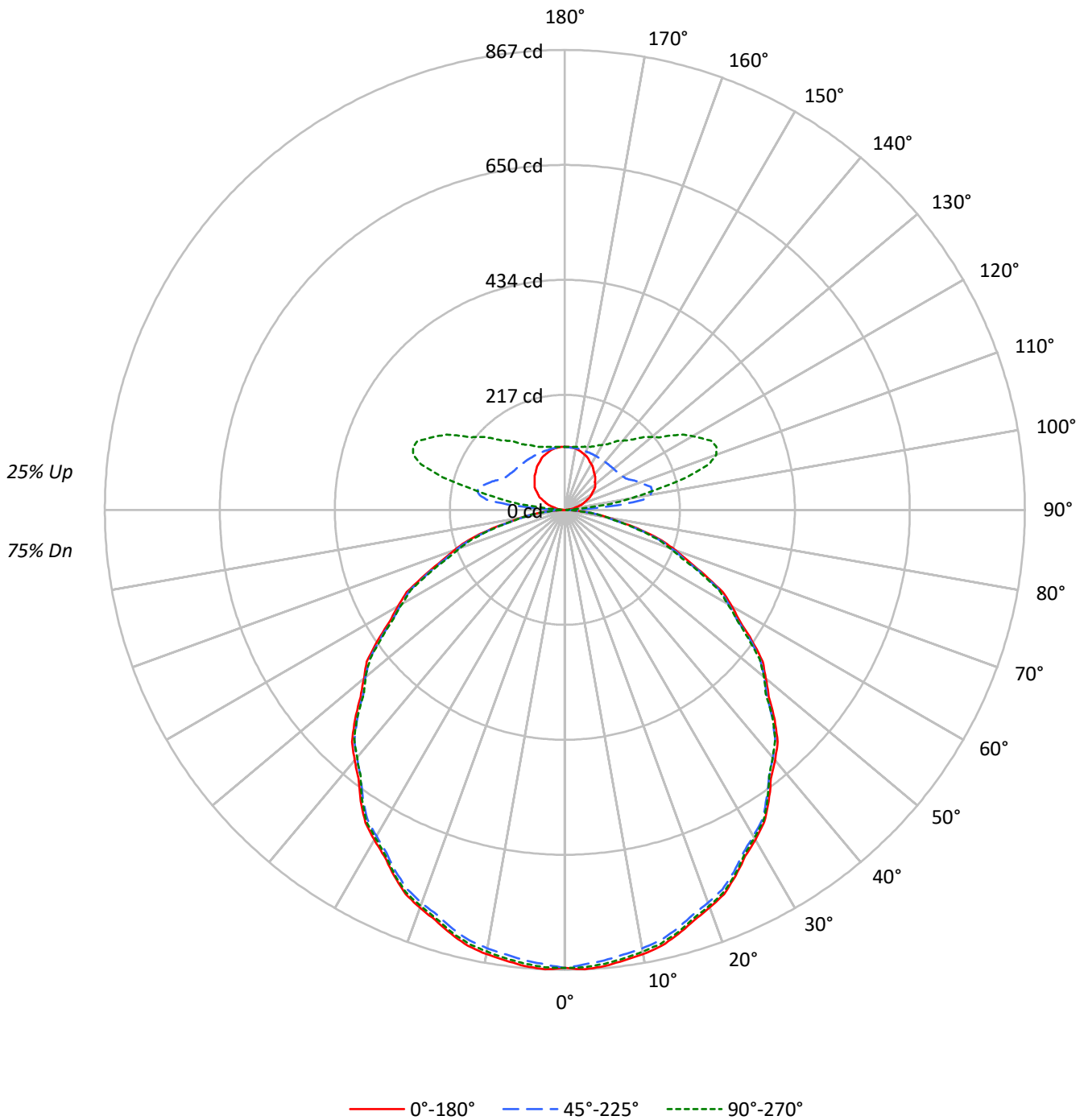
Lumens per Lamp: N/A
Luminaire Lumens: 3127.2 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 29.9
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	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79	75
1	103	99	95	91	98	94	91	87	86	83	80	78	75	73	70	69	67	63
2	94	86	80	74	89	82	77	72	75	70	66	68	64	61	62	59	56	53
3	86	76	68	62	81	72	65	60	66	60	56	60	56	52	55	51	48	45
4	79	67	59	52	74	64	57	51	59	52	47	53	48	44	49	45	41	38
5	72	60	51	45	68	57	49	44	52	46	41	48	43	38	44	39	36	33
6	67	54	45	39	63	52	44	38	47	41	36	43	38	34	40	35	31	29
7	62	49	40	34	58	47	39	33	43	36	32	39	34	30	36	32	28	26
8	57	44	36	31	54	43	35	30	39	33	28	36	31	27	33	29	25	23
9	53	41	33	27	51	39	32	27	36	30	25	33	28	24	31	26	23	21
10	50	37	30	25	48	36	29	24	33	27	23	31	25	22	28	24	20	19

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	2.6
10°-20°	232.1	7.4
20°-30°	348.7	11.2
30°-40°	416.1	13.3
40°-50°	426.7	13.6
50°-60°	380.2	12.2
60°-70°	283.5	9.1
70°-80°	153.7	4.9
80°-90°	36.0	1.2
90°-100°	57.8	1.8
100°-110°	151.9	4.9
110°-120°	157.6	5.0
120°-130°	126.4	4.0
130°-140°	99.2	3.2
140°-150°	76.1	2.4
150°-160°	54.8	1.8
160°-170°	33.5	1.1
170°-180°	11.3	0.4
0°-30°	662.3	21.2
0°-40°	1078.4	34.5
0°-60°	1885.3	60.3
0°-90°	2358.6	75.4
90°-120°	367.3	11.7
90°-150°	668.9	21.4
90°-180°	769.0	24.6
0°-180°	3127.2	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	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°	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	7.9	8.2	7.5	7.5
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)