

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P521456

Luminaire Tested: **SQ4-F-075U-050D-93050-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/5/2021



Test Information

Test Method: LM-79-08
Report Number: P521456
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-50,
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-075U-050D-93050-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

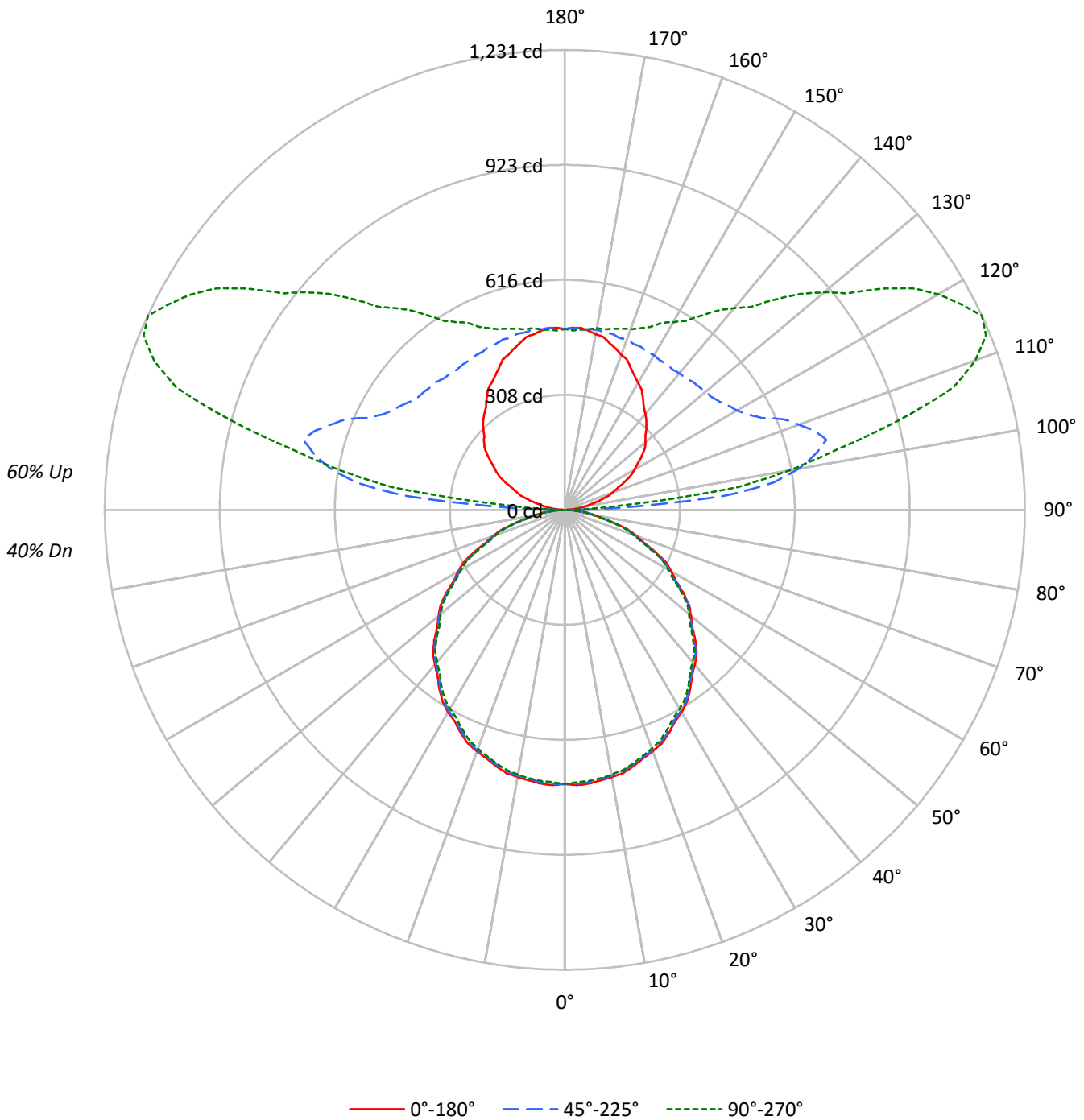
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5221.3 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 44.4
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	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47	40
1	95	91	87	84	87	83	80	77	68	66	64	54	53	51	41	40	39	33
2	87	79	73	68	79	72	67	63	59	56	52	47	45	42	36	34	33	28
3	79	70	62	57	72	64	57	52	52	48	44	42	38	36	32	30	28	23
4	72	61	54	48	65	56	49	44	46	41	37	37	33	30	28	26	24	20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	26	23	21	17
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	44	36	31	51	40	33	28	34	28	24	27	23	20	21	18	16	13
8	52	40	32	27	47	37	30	25	30	25	21	25	21	18	19	16	14	12
9	48	36	29	24	44	33	27	22	28	23	19	23	19	16	18	15	13	11
10	45	33	26	21	41	31	24	20	26	21	17	21	17	14	16	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6769	6769	6769
5°	6814	6777	6748
10°	6806	6768	6740
15°	6783	6743	6715
20°	6751	6721	6680
25°	6708	6666	6603
30°	6660	6616	6550
35°	6590	6555	6486
40°	6517	6468	6405
45°	6444	6378	6324
50°	6324	6281	6222
55°	6214	6148	6082
60°	6069	5975	5899
65°	5840	5683	5615
70°	5473	5336	5279
75°	4969	4823	4748
80°	4139	4192	4086
85°	2932	3472	3472



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.4	1.3
10°-20°	198.9	3.8
20°-30°	300.5	5.8
30°-40°	362.0	6.9
40°-50°	375.9	7.2
50°-60°	341.0	6.5
60°-70°	258.6	5.0
70°-80°	144.2	2.8
80°-90°	38.1	0.7
90°-100°	249.4	4.8
100°-110°	602.8	11.5
110°-120°	642.9	12.3
120°-130°	520.7	10.0
130°-140°	403.1	7.7
140°-150°	307.5	5.9
150°-160°	222.6	4.3
160°-170°	137.1	2.6
170°-180°	46.4	0.9
0°-30°	568.8	10.9
0°-40°	930.8	17.8
0°-60°	1647.7	31.6
0°-90°	2088.6	40.0
90°-120°	1495.1	28.6
90°-150°	2726.5	52.2
90°-180°	3133.0	60.0
0°-180°	5221.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	734	734	734	734	734	
5°	736	730	732	730	729	70
15°	710	702	706	704	703	200
25°	659	652	655	649	649	303
35°	585	579	582	575	576	366
45°	494	489	489	484	485	380
55°	386	385	382	378	378	345
65°	268	264	260	257	257	264
75°	139	137	135	133	133	147
85°	28	31	33	33	33	34
90°	0	0	0	0	0	2
95°	25	125	427	278	195	28
105°	96	166	724	937	925	102
115°	176	225	582	1103	1231	174
125°	251	289	505	878	1031	224
135°	308	344	485	692	796	238
145°	365	392	476	588	634	228
155°	418	436	482	521	540	193
165°	462	469	488	495	502	130
175°	489	487	489	485	484	46
180°	484	484	484	484	484	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	733.7	733.7	733.7	733.7	733.7
2.5°	737.8	732.2	733.7	732.8	729.6
5°	735.7	729.7	731.7	729.6	728.6
7.5°	730.6	724.4	726.5	724.5	725.1
10°	726.5	719.5	722.4	720.4	719.4
12.5°	721.6	713.8	716.7	713.8	714.4
15°	710.1	702.1	706.0	704.0	703.0
17.5°	697.4	690.4	694.4	691.1	691.1
20°	687.6	680.6	684.5	680.4	680.4
22.5°	676.9	669.1	673.0	668.1	668.1
25°	658.9	651.9	654.8	648.6	648.6
27.5°	638.2	631.0	634.9	628.8	628.8
30°	625.1	617.1	621.0	614.8	614.8
32.5°	608.7	603.1	605.4	599.3	599.3
35°	585.1	579.1	582.0	574.9	575.9
37.5°	559.1	554.9	555.0	548.7	549.9
40°	541.1	536.0	537.0	529.8	531.8
42.5°	522.2	518.0	518.1	512.6	513.8
45°	493.9	488.9	488.8	483.7	484.7
47.5°	461.9	459.3	458.9	452.9	454.0
50°	440.6	439.6	437.6	432.5	433.5
52.5°	419.3	418.3	416.2	411.1	412.1
55°	386.3	385.3	382.2	378.1	378.1
57.5°	351.9	350.9	347.6	343.5	343.5
60°	328.9	327.9	323.8	319.7	319.7
62.5°	305.2	303.4	299.2	295.9	295.9
65°	267.5	264.4	260.3	257.2	257.2
67.5°	228.3	226.3	223.2	220.3	220.3
70°	202.9	200.9	197.8	195.7	195.7
72.5°	177.5	175.5	172.4	170.3	170.3
75°	139.4	137.4	135.3	133.2	133.2
77.5°	101.7	101.1	101.0	99.0	99.0
80°	77.9	78.9	78.9	76.9	76.9
82.5°	55.7	57.5	58.4	58.0	58.0
85°	27.7	30.7	32.8	32.8	32.8
87.5°	8.2	10.6	13.1	13.1	13.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.2	67.5	159.0	77.3	52.5
95°	24.6	124.8	427.3	277.9	194.7
97.5°	43.7	138.2	562.8	542.2	465.4
100°	58.4	146.6	637.4	672.8	609.7
102.5°	72.3	154.1	686.6	781.6	744.2
105°	96.3	166.5	724.5	937.3	925.3
107.5°	119.9	181.0	702.1	1062.3	1090.5
110°	136.3	193.4	666.1	1116.1	1169.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	152.7	205.8	634.1	1129.3	1220.0
115°	176.3	225.3	582.0	1103.4	1230.7
117.5°	199.6	245.9	551.5	1044.1	1193.2
120°	215.2	258.3	531.8	997.5	1153.8
122.5°	231.6	271.5	519.5	949.9	1103.8
125°	251.1	289.1	505.2	877.6	1030.9
127.5°	270.3	306.2	495.1	816.3	950.9
130°	281.8	316.9	491.9	773.6	905.9
132.5°	292.5	329.1	486.9	742.8	855.0
135°	308.4	344.5	484.7	692.0	796.2
137.5°	323.6	359.9	477.5	657.6	736.2
140°	335.1	368.1	477.5	632.9	705.0
142.5°	346.6	379.6	473.4	611.3	672.2
145°	364.8	391.9	475.5	588.2	634.3
147.5°	381.8	408.1	474.2	561.6	599.7
150°	392.5	415.5	477.5	549.9	580.0
152.5°	403.9	426.2	476.7	537.6	564.4
155°	418.1	436.1	481.6	521.0	540.0
157.5°	435.1	450.5	480.6	514.7	525.9
160°	441.7	454.7	484.7	506.4	514.4
162.5°	452.3	463.7	483.1	503.9	508.7
165°	462.2	469.2	487.8	495.1	502.1
167.5°	474.2	478.9	486.5	494.5	494.7
170°	477.5	480.5	489.8	488.9	493.9
172.5°	483.3	485.5	487.4	489.5	486.5
175°	488.8	486.8	488.8	484.7	483.7
177.5°	487.8	487.8	486.1	484.4	480.4
180°	483.7	483.7	483.7	483.7	483.7

(END OF REPORT)