

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: P521465

Luminaire Tested: **SQ4-F-075U-075D-93050-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521465
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-075D-93050-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

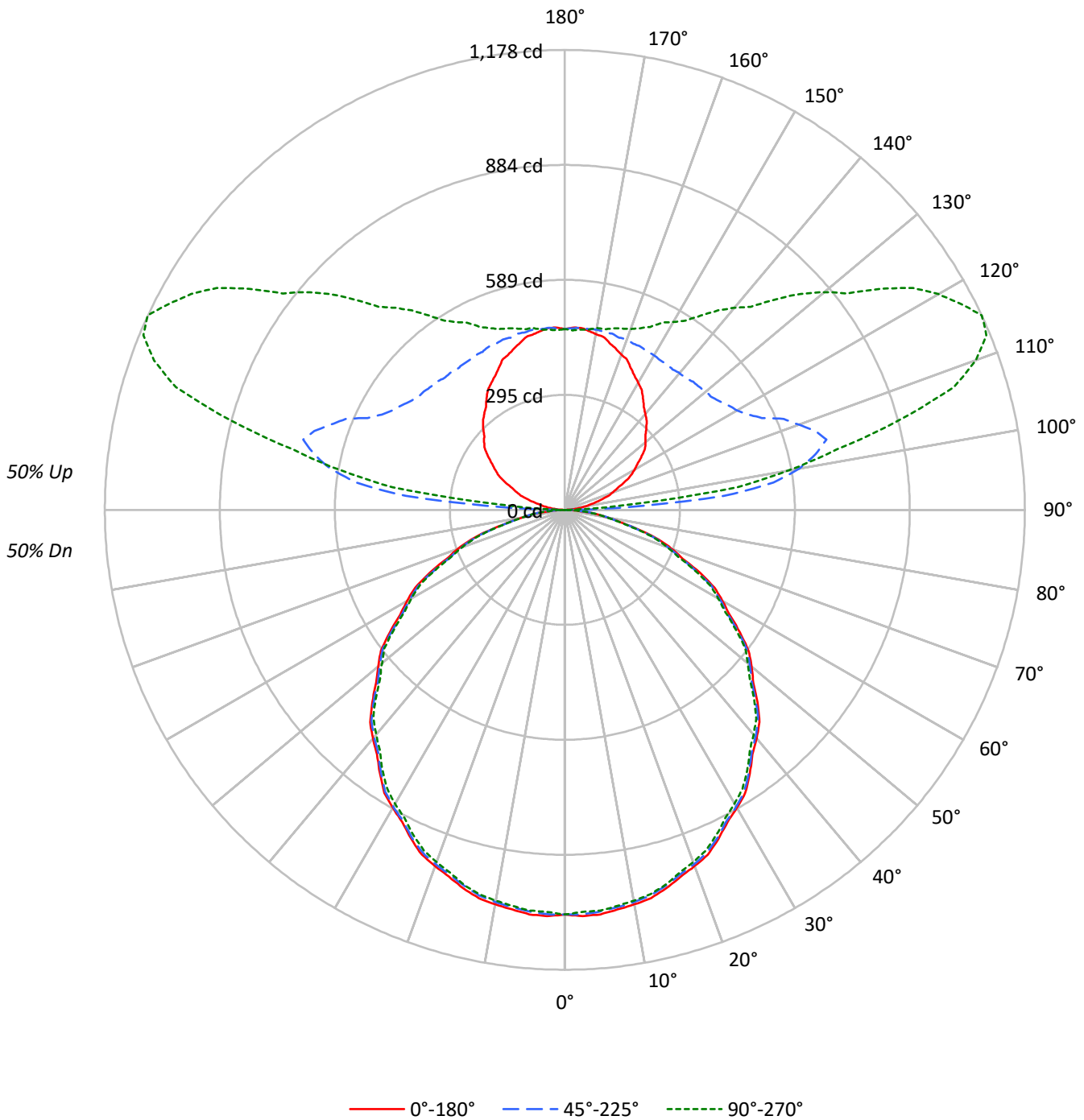
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5954.3 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.38
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 55.2
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	93	89	86	90	86	83	80	73	70	68	60	59	57	49	48	47	42
2	89	81	75	70	81	75	70	65	63	59	56	53	50	47	43	41	39	35
3	81	71	64	58	74	66	59	54	56	51	47	47	43	40	38	35	33	29
4	74	63	55	49	68	58	51	46	49	44	40	41	37	34	34	31	28	25
5	68	56	48	42	62	52	45	39	44	39	34	37	33	29	30	27	25	21
6	62	50	42	36	57	46	39	34	40	34	30	33	29	26	27	24	22	19
7	58	45	37	31	53	42	35	30	36	30	26	30	26	23	25	22	19	16
8	53	41	33	28	49	38	31	26	33	27	23	28	23	20	23	20	17	15
9	50	37	30	25	46	35	28	23	30	24	21	25	21	18	21	18	15	13
10	46	34	27	22	43	32	25	21	28	22	19	23	19	16	20	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9560	9560	9560
5°	9633	9569	9542
10°	9615	9561	9523
15°	9588	9522	9503
20°	9538	9489	9431
25°	9469	9430	9349
30°	9387	9356	9262
35°	9294	9250	9173
40°	9206	9147	9052
45°	9102	9026	8936
50°	8958	8886	8774
55°	8807	8696	8586
60°	8601	8455	8364
65°	8333	8119	8012
70°	7834	7623	7542
75°	6994	6855	6752
80°	5786	5839	5786
85°	4150	4679	4880



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.1	1.6
10°-20°	280.9	4.7
20°-30°	424.8	7.1
30°-40°	511.4	8.6
40°-50°	531.2	8.9
50°-60°	482.0	8.1
60°-70°	367.6	6.2
70°-80°	204.9	3.4
80°-90°	53.7	0.9
90°-100°	238.8	4.0
100°-110°	577.2	9.7
110°-120°	615.6	10.3
120°-130°	498.6	8.4
130°-140°	386.0	6.5
140°-150°	294.5	4.9
150°-160°	213.2	3.6
160°-170°	131.3	2.2
170°-180°	44.5	0.7
0°-30°	803.7	13.5
0°-40°	1315.1	22.1
0°-60°	2328.4	39.1
0°-90°	2954.7	49.6
90°-120°	1431.6	24.0
90°-150°	2610.7	43.8
90°-180°	3000.0	50.4
0°-180°	5954.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1036	1036	1036	1036	1036	
5°	1040	1030	1033	1031	1030	99
15°	1004	992	997	995	995	283
25°	930	921	926	918	918	428
35°	825	819	821	812	814	516
45°	698	691	692	683	685	537
55°	548	545	541	534	534	489
65°	382	378	372	366	367	376
75°	196	195	192	190	189	209
85°	39	44	44	46	46	48
90°	0	0	0	0	0	3
95°	24	120	409	266	186	26
105°	92	159	694	898	886	97
115°	169	216	557	1057	1178	167
125°	240	277	484	840	987	215
135°	295	330	464	663	762	228
145°	349	375	455	563	607	218
155°	400	418	461	499	517	185
165°	442	449	467	474	481	125
175°	468	466	468	464	463	44
180°	463	463	463	463	463	



TEST NUMBER: P521465

CATALOG NUMBER: SQ4-F-075U-075D-93050-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1036.2	1036.2	1036.2	1036.2	1036.2
2.5°	1041.7	1034.0	1036.9	1034.5	1030.7
5°	1040.1	1030.5	1033.2	1031.2	1030.3
7.5°	1032.6	1023.0	1026.7	1023.8	1023.6
10°	1026.3	1016.8	1020.5	1017.5	1016.5
12.5°	1018.5	1008.1	1011.8	1008.9	1008.7
15°	1003.8	992.3	996.9	994.9	994.9
17.5°	985.5	974.2	979.8	976.3	974.7
20°	971.4	960.8	966.5	960.6	960.6
22.5°	956.5	945.9	950.8	944.1	944.1
25°	930.2	920.6	926.3	917.5	918.4
27.5°	901.5	892.9	897.8	889.4	889.8
30°	881.1	872.5	878.2	867.4	869.4
32.5°	859.9	852.1	855.4	846.2	846.6
35°	825.2	819.4	821.3	812.5	814.4
37.5°	789.5	782.8	784.6	775.6	777.5
40°	764.4	757.6	759.5	749.7	751.6
42.5°	737.7	731.7	732.8	723.0	725.7
45°	697.6	690.9	691.8	683.0	684.9
47.5°	654.7	649.3	648.2	640.2	641.9
50°	624.1	620.2	619.1	610.3	611.3
52.5°	593.4	590.4	587.7	579.8	582.3
55°	547.5	544.6	540.6	533.8	533.8
57.5°	499.8	497.0	492.0	485.2	487.1
60°	466.1	463.2	458.2	451.4	453.3
62.5°	432.3	429.4	423.7	417.6	418.8
65°	381.7	377.9	371.9	366.0	367.0
67.5°	327.3	323.7	318.7	313.0	314.2
70°	290.4	287.6	282.6	277.7	279.6
72.5°	252.0	249.1	244.9	242.4	242.0
75°	196.2	195.3	192.3	190.3	189.4
77.5°	143.5	144.8	141.3	140.5	140.3
80°	108.9	111.8	109.9	109.9	108.9
82.5°	78.3	82.7	81.6	81.6	81.4
85°	39.2	44.0	44.2	46.1	46.1
87.5°	11.0	15.6	18.1	18.8	18.8
90°	0.0	0.0	0.0	0.0	0.0
92.5°	7.8	64.6	152.3	74.0	50.2
95°	23.5	119.5	409.2	266.1	186.4
97.5°	41.8	132.4	538.9	519.2	445.7
100°	55.9	140.4	610.3	644.3	583.8
102.5°	69.3	147.6	657.4	748.4	712.6
105°	92.2	159.4	693.7	897.5	886.0
107.5°	114.8	173.3	672.3	1017.2	1044.2
110°	130.5	185.2	637.8	1068.7	1119.6

TEST NUMBER: P521465

CATALOG NUMBER: SQ4-F-075U-075D-93050-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	146.2	197.0	607.2	1081.3	<i>1168.2</i>
115°	<i>168.8</i>	<i>215.8</i>	<i>557.3</i>	<i>1056.6</i>	<i>1178.4</i>
117.5°	191.1	235.5	528.1	999.8	<i>1142.5</i>
120°	206.1	247.3	509.2	955.2	<i>1104.8</i>
122.5°	221.8	259.9	497.5	909.6	<i>1057.0</i>
125°	240.4	276.9	483.7	840.3	<i>987.1</i>
127.5°	258.8	293.2	474.1	781.6	<i>910.6</i>
130°	269.8	303.4	471.0	740.8	<i>867.4</i>
132.5°	280.0	315.2	466.3	711.3	<i>818.7</i>
135°	295.3	329.9	464.1	662.6	<i>762.4</i>
137.5°	309.9	344.6	457.2	629.7	<i>704.9</i>
140°	320.9	352.5	457.2	606.0	<i>675.1</i>
142.5°	331.8	363.5	453.3	585.3	<i>643.7</i>
145°	349.3	375.2	455.3	563.2	<i>607.4</i>
147.5°	365.6	390.7	454.1	537.7	<i>574.2</i>
150°	375.8	397.9	457.2	526.6	<i>555.4</i>
152.5°	386.8	408.1	456.5	514.7	<i>540.5</i>
155°	400.3	417.6	461.2	498.9	<i>517.1</i>
157.5°	416.6	431.4	460.2	492.8	<i>503.6</i>
160°	422.9	435.4	464.1	484.9	<i>492.6</i>
162.5°	433.1	444.0	462.5	482.5	<i>487.1</i>
165°	442.5	449.2	467.1	474.1	<i>480.8</i>
167.5°	454.1	458.5	465.9	473.5	<i>473.7</i>
170°	457.2	460.1	469.0	468.1	<i>472.9</i>
172.5°	462.7	464.9	466.7	468.8	<i>465.9</i>
175°	468.0	466.1	468.0	464.1	<i>463.1</i>
177.5°	467.1	467.1	465.5	463.8	<i>460.0</i>
180°	463.1	463.1	463.1	463.1	<i>463.1</i>

(END OF REPORT)