

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: P521673

Luminaire Tested: **SQ4-F-150U-075D-93050-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521673
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-150U-075D-93050-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

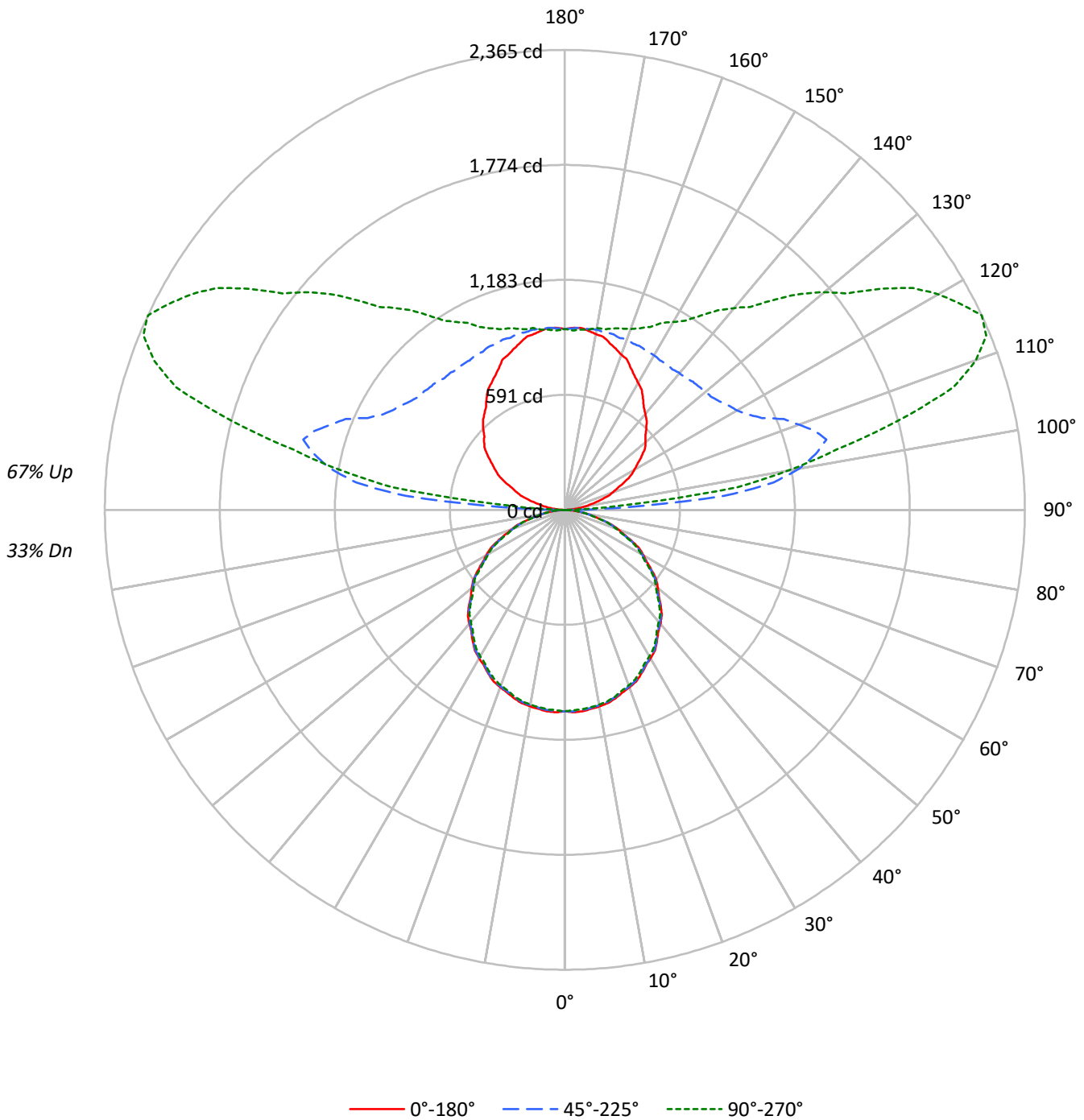
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8975.7 lumens
Efficiency: N/A
Efficacy: 108.7 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: Semi-Indirect

Input Watts (W): 82.6
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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	33
1	94	90	86	82	84	81	78	75	64	62	60	49	48	47	36	35	34	28
2	85	78	72	67	77	71	65	61	56	53	50	43	41	39	31	30	28	23
3	78	68	61	56	70	62	56	51	50	45	42	38	35	33	27	26	24	19
4	71	60	53	47	64	55	48	43	44	39	35	34	30	28	24	22	21	16
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	20	18	14
6	60	48	40	34	54	44	37	32	35	30	26	27	24	21	20	17	16	12
7	55	43	35	30	49	39	32	28	32	27	23	25	21	18	18	16	14	11
8	51	39	31	26	46	35	29	24	29	24	20	22	19	16	17	14	12	10
9	47	35	28	23	43	32	26	21	26	21	18	21	17	14	15	13	11	9
10	44	32	25	21	40	30	23	19	24	19	16	19	15	13	14	12	10	8

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	1.1
10°-20°	280.9	3.1
20°-30°	424.8	4.7
30°-40°	511.4	5.7
40°-50°	531.2	5.9
50°-60°	482.0	5.4
60°-70°	367.6	4.1
70°-80°	204.9	2.3
80°-90°	53.7	0.6
90°-100°	479.4	5.3
100°-110°	1158.6	12.9
110°-120°	1235.7	13.8
120°-130°	1000.8	11.2
130°-140°	774.9	8.6
140°-150°	591.1	6.6
150°-160°	427.9	4.8
160°-170°	263.5	2.9
170°-180°	89.2	1.0
0°-30°	803.7	9.0
0°-40°	1315.1	14.7
0°-60°	2328.4	25.9
0°-90°	2954.7	32.9
90°-120°	2873.6	32.0
90°-150°	5240.4	58.4
90°-180°	6021.0	67.1
0°-180°	8975.7	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	4
95°	47	240	821	534	374	53
105°	185	320	1392	1802	1778	196
115°	339	433	1119	2121	2365	335
125°	482	556	971	1687	1981	431
135°	593	662	932	1330	1530	458
145°	701	753	914	1131	1219	438
155°	804	838	926	1001	1038	371
165°	888	902	938	952	965	251
175°	940	936	940	932	930	89
180°	930	930	930	930	930	

TEST NUMBER: P521673

CATALOG NUMBER: SQ4-F-150U-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°	15.8	129.8	305.7	148.6	100.8
95°	47.3	239.8	821.3	534.1	374.2
97.5°	83.9	265.7	1081.7	1042.1	894.6
100°	112.3	281.7	1225.1	1293.2	1171.9
102.5°	139.1	296.2	1319.6	1502.3	1430.3
105°	185.1	319.9	1392.5	1801.6	1778.5
107.5°	230.4	347.9	1349.5	2041.7	2096.0
110°	262.0	371.7	1280.2	2145.2	2247.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	293.5	395.5	1218.8	2170.5	2345.0
115°	338.8	433.1	1118.7	2120.9	2365.4
117.5°	383.7	472.6	1060.0	2006.8	2293.4
120°	413.6	496.4	1022.2	1917.3	2217.7
122.5°	445.1	521.8	998.6	1825.8	2121.6
125°	482.5	555.7	971.0	1686.7	1981.4
127.5°	519.6	588.5	951.7	1568.9	1827.7
130°	541.6	609.0	945.4	1486.9	1741.1
132.5°	562.1	632.6	935.9	1427.7	1643.4
135°	592.8	662.2	931.6	1330.1	1530.3
137.5°	622.0	691.7	917.8	1263.9	1414.9
140°	644.0	707.6	917.8	1216.4	1355.1
142.5°	666.1	729.7	909.9	1174.9	1292.0
145°	701.2	753.2	913.9	1130.6	1219.2
147.5°	733.9	784.3	911.5	1079.4	1152.6
150°	754.3	798.6	917.8	1057.0	1114.8
152.5°	776.4	819.2	916.2	1033.2	1084.8
155°	803.6	838.2	925.7	1001.4	1038.0
157.5°	836.3	865.9	923.7	989.2	1010.8
160°	848.9	873.9	931.6	973.3	988.7
162.5°	869.4	891.3	928.4	968.4	977.7
165°	888.3	901.8	937.5	951.6	965.1
167.5°	911.5	920.4	935.1	950.5	950.9
170°	917.8	923.6	941.4	939.7	949.3
172.5°	928.8	933.1	936.7	940.9	935.1
175°	939.5	935.6	939.5	931.6	929.6
177.5°	937.5	937.5	934.4	931.0	923.3
180°	929.6	929.6	929.6	929.6	929.6

(END OF REPORT)