

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: P521610

Luminaire Tested: **SQ4-F-125U-050D-93050-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521610
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-125U-050D-93050-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

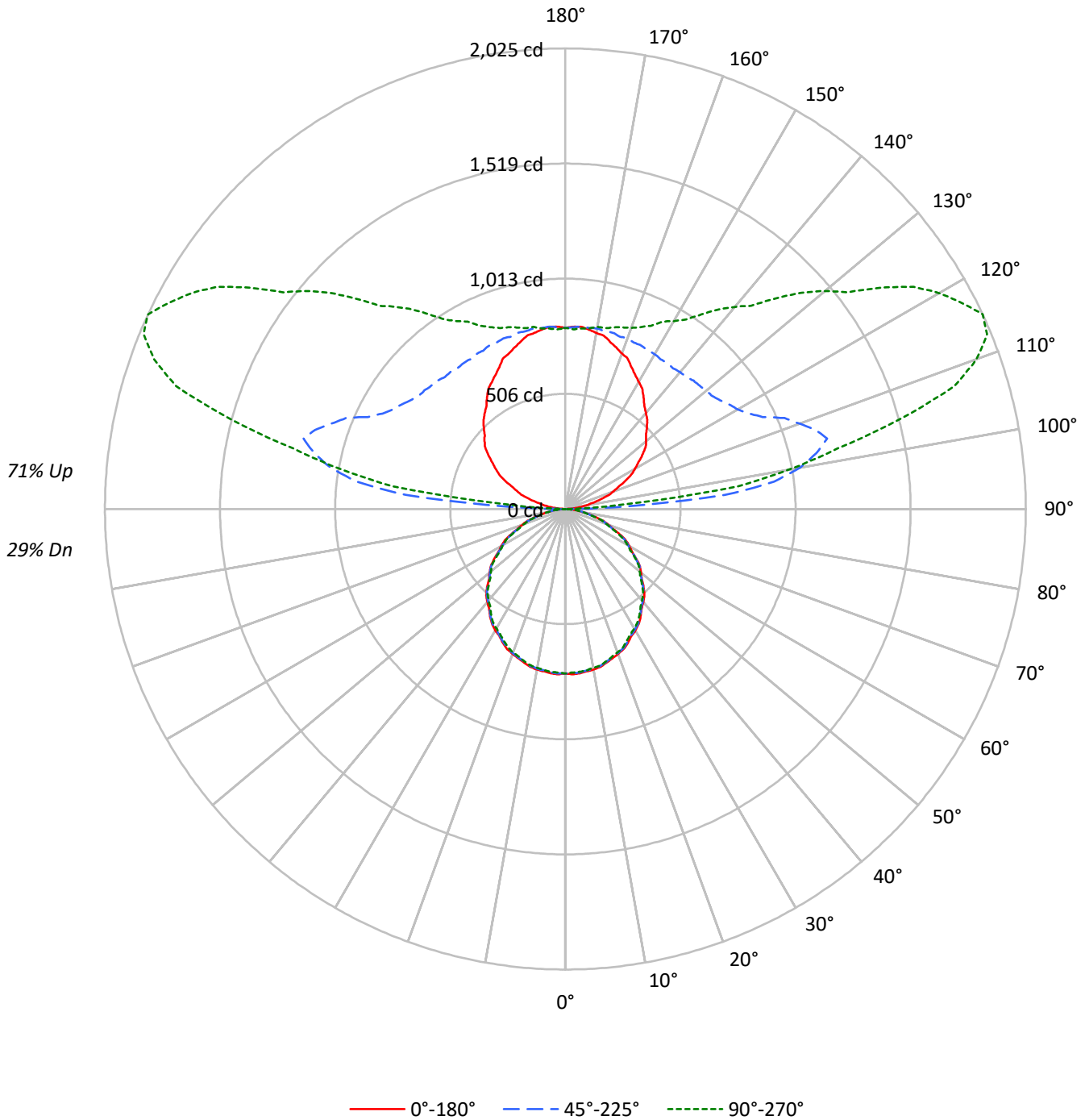
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7214.7 lumens
Efficiency: N/A
Efficacy: 116.0 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: Semi-Indirect

Input Watts (W): 62.2
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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	29
1	93	89	85	81	83	80	76	73	62	60	58	47	45	44	32	31	31	24
2	84	77	71	66	75	69	64	60	54	51	48	41	39	37	28	27	26	20
3	77	68	61	55	69	61	55	50	48	44	40	36	33	31	25	23	22	17
4	70	60	52	46	63	54	47	42	42	38	34	32	29	26	22	20	19	14
5	64	53	45	39	57	48	41	36	38	33	29	28	25	23	20	18	16	12
6	59	47	40	34	53	43	36	31	34	29	25	26	22	20	18	16	14	11
7	55	43	35	30	49	38	32	27	31	26	22	23	20	17	16	14	12	9
8	50	39	31	26	45	35	28	24	28	23	19	21	18	15	15	13	11	8
9	47	35	28	23	42	32	25	21	25	21	17	19	16	14	14	12	10	8
10	44	32	25	20	39	29	23	19	23	19	15	18	14	12	13	11	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6676	6676	6676
5°	6720	6683	6655
10°	6713	6675	6647
15°	6690	6651	6622
20°	6658	6628	6589
25°	6615	6574	6512
30°	6568	6524	6460
35°	6500	6465	6397
40°	6427	6378	6317
45°	6356	6290	6237
50°	6238	6194	6136
55°	6129	6064	5998
60°	5986	5894	5818
65°	5759	5604	5539
70°	5398	5263	5206
75°	4898	4755	4684
80°	4081	4134	4027
85°	2890	3419	3419



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.5	0.9
10°-20°	196.1	2.7
20°-30°	296.4	4.1
30°-40°	357.0	4.9
40°-50°	370.7	5.1
50°-60°	336.3	4.7
60°-70°	255.0	3.5
70°-80°	142.2	2.0
80°-90°	37.6	0.5
90°-100°	410.4	5.7
100°-110°	991.9	13.7
110°-120°	1057.9	14.7
120°-130°	856.8	11.9
130°-140°	663.4	9.2
140°-150°	506.1	7.0
150°-160°	366.3	5.1
160°-170°	225.6	3.1
170°-180°	76.4	1.1
0°-30°	561.0	7.8
0°-40°	918.0	12.7
0°-60°	1625.1	22.5
0°-90°	2059.9	28.6
90°-120°	2460.2	34.1
90°-150°	4486.5	62.2
90°-180°	5155.0	71.5
0°-180°	7214.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	724	724	724	724	724	
5°	726	720	722	720	719	69
15°	700	692	696	694	693	198
25°	650	643	646	640	640	299
35°	577	571	574	567	568	361
45°	487	482	482	477	478	375
55°	381	380	377	373	373	340
65°	264	261	257	254	254	260
75°	137	136	133	131	131	145
85°	27	30	32	32	32	34
90°	0	0	0	0	0	3
95°	40	205	703	457	320	45
105°	158	274	1192	1542	1523	167
115°	290	371	958	1816	2025	287
125°	413	476	831	1444	1696	369
135°	508	567	798	1139	1310	392
145°	600	645	782	968	1044	375
155°	688	718	792	857	889	318
165°	760	772	803	815	826	215
175°	804	801	804	798	796	76
180°	796	796	796	796	796	



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CATALOG NUMBER: SQ4-F-125U-050D-93050-1D-UNV-STD-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	723.6	723.6	723.6	723.6	723.6
2.5°	727.7	722.1	723.6	722.7	719.6
5°	725.6	719.7	721.6	719.6	718.6
7.5°	720.6	714.5	716.5	714.5	715.1
10°	716.5	709.6	712.5	710.5	709.5
12.5°	711.7	704.0	706.8	704.0	704.6
15°	700.4	692.5	696.3	694.3	693.3
17.5°	687.8	680.9	684.8	681.6	681.6
20°	678.1	671.2	675.1	671.1	671.1
22.5°	667.6	659.9	663.8	658.9	658.9
25°	649.8	642.9	645.8	639.7	639.7
27.5°	629.4	622.3	626.2	620.1	620.1
30°	616.5	608.6	612.4	606.4	606.4
32.5°	600.3	594.8	597.1	591.0	591.0
35°	577.1	571.1	574.0	567.0	568.0
37.5°	551.4	547.3	547.4	541.1	542.3
40°	533.6	528.7	529.6	522.5	524.5
42.5°	515.0	510.9	511.0	505.5	506.7
45°	487.1	482.2	482.1	477.0	478.0
47.5°	455.6	453.0	452.6	446.7	447.7
50°	434.6	433.6	431.5	426.5	427.5
52.5°	413.6	412.6	410.5	405.5	406.5
55°	381.0	380.0	377.0	372.9	372.9
57.5°	347.1	346.1	342.8	338.8	338.8
60°	324.4	323.4	319.4	315.3	315.3
62.5°	301.0	299.2	295.1	291.9	291.9
65°	263.8	260.8	256.7	253.7	253.7
67.5°	225.2	223.2	220.1	217.3	217.3
70°	200.1	198.1	195.1	193.0	193.0
72.5°	175.0	173.1	170.0	168.0	168.0
75°	137.4	135.5	133.4	131.4	131.4
77.5°	100.3	99.7	99.6	97.6	97.6
80°	76.8	77.8	77.8	75.8	75.8
82.5°	55.0	56.8	57.6	57.2	57.2
85°	27.3	30.3	32.3	32.3	32.3
87.5°	8.1	10.5	12.9	12.9	12.9
90°	0.0	0.0	0.0	0.0	0.0
92.5°	13.5	111.1	261.7	127.2	86.3
95°	40.5	205.3	703.1	457.2	320.4
97.5°	71.8	227.5	926.1	892.2	765.9
100°	96.1	241.2	1048.8	1107.2	1003.3
102.5°	119.0	253.6	1129.8	1286.2	1224.5
105°	158.5	273.9	1192.1	1542.4	1522.6
107.5°	197.3	297.9	1155.4	1748.0	1794.5
110°	224.3	318.2	1096.0	1836.6	1924.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	251.2	338.6	1043.4	1858.2	2007.6
115°	290.0	370.8	957.8	1815.7	2025.1
117.5°	328.5	404.6	907.5	1718.1	1963.4
120°	354.1	425.0	875.1	1641.5	1898.7
122.5°	381.1	446.7	854.9	1563.1	1816.4
125°	413.1	475.8	831.3	1444.1	1696.3
127.5°	444.8	503.8	814.8	1343.2	1564.8
130°	463.7	521.4	809.4	1273.0	1490.6
132.5°	481.2	541.6	801.3	1222.3	1407.0
135°	507.5	566.9	797.6	1138.7	1310.2
137.5°	532.5	592.2	785.8	1082.1	1211.4
140°	551.4	605.8	785.8	1041.4	1160.1
142.5°	570.3	624.7	779.0	1005.9	1106.1
145°	600.3	644.8	782.4	967.9	1043.8
147.5°	628.3	671.5	780.4	924.1	986.8
150°	645.8	683.7	785.8	904.9	954.4
152.5°	664.7	701.3	784.4	884.6	928.8
155°	688.0	717.6	792.5	857.3	888.6
157.5°	716.0	741.4	790.8	846.9	865.4
160°	726.8	748.2	797.6	833.3	846.5
162.5°	744.3	763.1	794.9	829.1	837.0
165°	760.5	772.0	802.6	814.7	826.2
167.5°	780.4	788.0	800.6	813.8	814.1
170°	785.8	790.7	806.0	804.5	812.7
172.5°	795.2	798.8	802.0	805.6	800.6
175°	804.3	801.0	804.3	797.5	795.9
177.5°	802.6	802.6	799.9	797.1	790.5
180°	795.9	795.9	795.9	795.9	795.9

(END OF REPORT)